Isoborneol

Other names:	Bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, exo-
	exo-2-Hydroxy-1,7,7-trimethylnorbornane
	Isobornyl alcohol
	exo-1,7,7-Trimethylbicyclo(2.2.1)heptan-2-ol
	exo-2-Bornanol
	exo-2-Camphanol
	DL-Isoborneol
	Exoborneol
	Isoborneol, DL-
	Isocamphol
	exo-1,7,7-Trimethylbicyclo(2.2.1)-2-heptanol
	Borneol, exo-
	2-exo-Bornyl alcohol
	Bicyclo(2.2.1)heptan-2-ol, 1,7,7-trimethyl-, (1R,2R,4R)-rel-
	NSC 26350
Inchi:	InChI=1S/C10H18O/c1-9(2)7-4-5-10(9,3)8(11)6-7/h7-8,11H,4-6H2,1-3H3/t7?,8-,10?/m1/s
InchiKey:	DTGKSKDOIYIVQL-CCNFQMFXSA-N
Formula:	C10H18O
SMILES:	CC1(C)C2CCC1(C)C(O)C2
Mol. weight [g/mol]:	154.25
CAS:	124-76-5

Physical Properties

Property code	Value	Unit	Source
gf	-20.50	kJ/mol	Joback Method
hf	-272.72	kJ/mol	Joback Method
hfus	9.46	kJ/mol	Joback Method
hvap	51.61	kJ/mol	Joback Method
log10ws	-2.45		Crippen Method
logp	2.194		Crippen Method
mcvol	135.910	ml/mol	McGowan Method
pc	3166.83	kPa	Joback Method
rinpol	1146.00		NIST Webbook
rinpol	1144.00		NIST Webbook
rinpol	1159.00		NIST Webbook
rinpol	1155.00		NIST Webbook
rinpol	1149.00		NIST Webbook

rinpol	1157.00	NIST Webbook
rinpol	1141.00	NIST Webbook
rinpol	1157.00	NIST Webbook
rinpol	1155.00	NIST Webbook
rinpol	1132.00	NIST Webbook
rinpol	1150.00	NIST Webbook
rinpol	1156.00	NIST Webbook
rinpol	1155.00	NIST Webbook
rinpol	1158.00	NIST Webbook
rinpol	1154.00	NIST Webbook
rinpol	1150.00	NIST Webbook
rinpol	1156.00	NIST Webbook
rinpol	1150.00	NIST Webbook
rinpol	1153.00	NIST Webbook
rinpol	1156.00	NIST Webbook
rinpol	1156.00	NIST Webbook
rinpol	1162.00	NIST Webbook
rinpol	1163.00	NIST Webbook
rinpol	1169.00	NIST Webbook
rinpol	1162.00	NIST Webbook
rinpol	1142.00	NIST Webbook
rinpol	1151.00	NIST Webbook
rinpol	1153.00	NIST Webbook
rinpol	1160.00	NIST Webbook
rinpol	1158.00	NIST Webbook
rinpol	1157.00	NIST Webbook
rinpol	1160.00	NIST Webbook
rinpol	1138.00	NIST Webbook
rinpol	1157.00	NIST Webbook
rinpol	1157.00	NIST Webbook
rinpol	1158.00	NIST Webbook
rinpol	1132.00	NIST Webbook
rinpol	1156.00	NIST Webbook
rinpol	1154.60	NIST Webbook
rinpol	1140.00	NIST Webbook
rinpol	1160.00	NIST Webbook
rinpol	1146.00	NIST Webbook
rinpol	1158.00	NIST Webbook
rinpol	1159.00	NIST Webbook
rinpol	1148.00	NIST Webbook
rinpol	1144.00	NIST Webbook
rinpol	1154.00	NIST Webbook
rinpol	1156.00	NIST Webbook
rinpol	1188.00	NIST Webbook

rinpol	1156.00	NIST Webbook
rinpol	1152.00	NIST Webbook
rinpol	1169.00	NIST Webbook
rinpol	1142.00	NIST Webbook
rinpol	1155.00	NIST Webbook
rinpol	1162.50	NIST Webbook
rinpol	1161.00	NIST Webbook
rinpol	1146.00	NIST Webbook
rinpol	1174.00	NIST Webbook
rinpol	1159.00	NIST Webbook
rinpol	1175.00	NIST Webbook
rinpol	1148.00	NIST Webbook
rinpol	1134.00	NIST Webbook
rinpol	1156.00	NIST Webbook
rinpol	1144.00	NIST Webbook
rinpol	1164.00	NIST Webbook
rinpol	1145.00	NIST Webbook
rinpol	1153.00	NIST Webbook
rinpol	1130.70	NIST Webbook
rinpol	1158.00	NIST Webbook
rinpol	1139.00	NIST Webbook
rinpol	1138.00	NIST Webbook
rinpol	1156.00	NIST Webbook
rinpol	1159.00	NIST Webbook
rinpol	1154.00	NIST Webbook
rinpol	1153.00	NIST Webbook
rinpol	1142.00	NIST Webbook
rinpol	1153.00	NIST Webbook
rinpol	1131.00	NIST Webbook
rinpol	1156.00	NIST Webbook
rinpol	1145.00	NIST Webbook
rinpol	1159.00	NIST Webbook
rinpol	1137.00	NIST Webbook
rinpol	1181.00	NIST Webbook
rinpol	1181.00	NIST Webbook
rinpol	1160.00	NIST Webbook
rinpol	1157.00	NIST Webbook
rinpol	1196.00	NIST Webbook
rinpol	1144.00	NIST Webbook
rinpol	1162.00	NIST Webbook
rinpol	1163.00	NIST Webbook
rinpol	1152.00	NIST Webbook
rinpol	1151.00	NIST Webbook
rinpol	1160.00	NIST Webbook

rinpol	1160.00	NIST Webbook
rinpol	1149.00	NIST Webbook
rinpol	1149.00	NIST Webbook
rinpol	1166.00	NIST Webbook
rinpol	1145.00	NIST Webbook
rinpol	1142.00	NIST Webbook
rinpol	1146.00	NIST Webbook
rinpol	1149.00	NIST Webbook
rinpol	1137.00	NIST Webbook
rinpol	1145.00	NIST Webbook
rinpol	1145.00	NIST Webbook
rinpol	1145.00	NIST Webbook
rinpol	1158.00	NIST Webbook
rinpol	1156.00	NIST Webbook
rinpol	1172.00	NIST Webbook
rinpol	1130.00	NIST Webbook
rinpol	1160.00	NIST Webbook
rinpol	1151.00	NIST Webbook
rinpol	1157.00	NIST Webbook
rinpol	1158.00	NIST Webbook
rinpol	1163.00	NIST Webbook
rinpol	1179.00	NIST Webbook
rinpol	1156.00	NIST Webbook
rinpol	1155.00	NIST Webbook
rinpol	1156.00	NIST Webbook
rinpol	1149.00	NIST Webbook
rinpol	1141.00	NIST Webbook
rinpol	1151.00	NIST Webbook
rinpol	1156.00	NIST Webbook
rinpol	1146.00	NIST Webbook
rinpol	1158.00	NIST Webbook
rinpol	1146.00	NIST Webbook
rinpol	1158.00	NIST Webbook
rinpol	1157.00	NIST Webbook
rinpol	1162.00	NIST Webbook
rinpol	1156.00	NIST Webbook
rinpol	1157.00	NIST Webbook
rinpol	1150.00	NIST Webbook
ripol	1652.00	NIST Webbook
ripol	1672.00	NIST Webbook
ripol	1656.00	NIST Webbook
ripol	1664.00	NIST Webbook
ripol	1652.00	NIST Webbook
ripol	1698.00	NIST Webbook

ripol	1660.00		NIST Webbook
ripol	1660.00		NIST Webbook
ripol	1654.00		NIST Webbook
ripol	1655.00		NIST Webbook
ripol	1682.00		NIST Webbook
ripol	1660.00		NIST Webbook
ripol	1664.00		NIST Webbook
ripol	1669.00		NIST Webbook
ripol	1680.00		NIST Webbook
ripol	1678.00		NIST Webbook
ripol	1664.00		NIST Webbook
ripol	1649.00		NIST Webbook
ripol	1660.00		NIST Webbook
ripol	1642.00		NIST Webbook
ripol	1642.00		NIST Webbook
ripol	1656.00		NIST Webbook
ripol	1665.00		NIST Webbook
ripol	1642.00		NIST Webbook
ripol	1682.00		NIST Webbook
ripol	1698.00		NIST Webbook
ripol	1696.00		NIST Webbook
ripol	1660.00		NIST Webbook
ripol	1672.00		NIST Webbook
ripol	1660.00		NIST Webbook
ripol	1659.00		NIST Webbook
ripol	1671.00		NIST Webbook
ripol	1672.00		NIST Webbook
ripol	1670.00		NIST Webbook
ripol	1633.00		NIST Webbook
ripol	1642.00		NIST Webbook
ripol	1665.00		NIST Webbook
ripol	1664.00		NIST Webbook
ripol	1642.00		NIST Webbook
ripol	1660.00		NIST Webbook
tb	529.27	K	Joback Method
tc	730.21	K	Joback Method
tf	334.96	K	Joback Method
vc	0.514	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source

cpg	354.30	J/mol×K	529.27	Joback Method
cpg	370.25	J/mol×K	562.76	Joback Method
cpg	385.05	J/mol×K	596.25	Joback Method
cpg	398.92	J/mol×K	629.74	Joback Method
cpg	412.02	J/mol×K	663.23	Joback Method
cpg	424.55	J/mol×K	696.72	Joback Method
cpg	436.70	J/mol×K	730.21	Joback Method
hsubt	41.10	kJ/mol	415.00	NIST Webbook

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C124765&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hsubt:	Enthalpy of sublimation at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from: