7a-Methyl-3-methylenehexahydrobenzofuran-2-or

Inchi: InChI=1S/C10H14O2/c1-7-8-5-3-4-6-10(8,2)12-9(7)11/h8H,1,3-6H2,2H3
InchiKey: CPAWXRWDKTWXJD-UHFFFAOYSA-N
Formula: C10H14O2
SMILES: C=C1C(=O)OC2(C)CCCCC12
Mol. weight [g/mol]: 166.22
CAS: 67498-53-7

Physical Properties

Property code	Value	Unit	Source
gf	-42.60	kJ/mol	Joback Method
hf	-292.83	kJ/mol	Joback Method
hfus	11.66	kJ/mol	Joback Method
hvap	45.96	kJ/mol	Joback Method
log10ws	-2.38		Crippen Method
logp	2.048		Crippen Method
mcvol	133.180	ml/mol	McGowan Method
pc	3254.14	kPa	Joback Method
rinpol	1302.00		NIST Webbook
tb	548.66	K	Joback Method
tc	788.80	K	Joback Method
tf	360.15	K	Joback Method
vc	0.495	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	336.77	J/mol×K	548.66	Joback Method
cpg	354.44	J/mol×K	588.68	Joback Method
cpg	370.96	J/mol×K	628.71	Joback Method
cpg	386.46	J/mol×K	668.73	Joback Method
cpg	401.08	J/mol×K	708.75	Joback Method
cpg	414.96	J/mol×K	748.78	Joback Method
cpg	428.25	J/mol×K	788.80	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
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=C67498537&Units=SI

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
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume