«epsilon»-Fenchene

Inchi: InChI=1S/C10H16/c1-7-8(2)10(3)5-4-9(7)6-10/h9H,4-6H2,1-3H3
InchiKey: HIZBWIXMAQEVLW-UHFFFAOYSA-N
Formula: C10H16
SMILES: CC1=C(C)C2(C)CCC1C2
Mol. weight [g/mol]: 136.23

Physical Properties

Property code	Value	Unit	Source
gf	147.93	kJ/mol	Joback Method
hf	-60.21	kJ/mol	Joback Method
hfus	9.97	kJ/mol	Joback Method
hvap	38.32	kJ/mol	Joback Method
log10ws	-3.17		Crippen Method
logp	3.143		Crippen Method
mcvol	125.740	ml/mol	McGowan Method
pc	2947.28	kPa	Joback Method
rinpol	935.00		NIST Webbook
rinpol	935.00		NIST Webbook
rinpol	912.00		NIST Webbook
rinpol	912.00		NIST Webbook
tb	455.31	K	Joback Method
tc	666.21	K	Joback Method
tf	284.52	K	Joback Method
vc	0.485	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	275.57	J/mol×K	455.31	Joback Method
cpg	292.74	J/mol×K	490.46	Joback Method
cpg	308.62	J/mol×K	525.61	Joback Method
cpg	323.35	J/mol×K	560.76	Joback Method
cpg	337.06	J/mol×K	595.91	Joback Method
cpg	349.90	J/mol×K	631.06	Joback Method

cpg	362.00	J/mol×K	666.21	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=R299999&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