Eudesmol

Other names: 2-Naphthalenemethanol, decahydro-«alpha»,«alpha»,4a,8-tetramethyl-, didehydro deriv., [2R-(2«alpha»,4a«alpha»,8a«beta»)]-
Inchi: InChI=1S/C15H24O/c1-11-6-5-8-15(4)9-7-12(10-13(11)15)14(2,3)16/h5-7,9,11-13,16H,8
InchiKey: IGDPRNLDNSDIJI-GWIFJHRUSA-N
Formula: C15H24O
SMILES: CC1C=CCC2(C)C=CC(C(C)(C)O)CC12
Mol. weight [g/mol]: 220.35
CAS: 51317-08-9

Physical Properties

Property code	Value	Unit	Source
gf	53.55	kJ/mol	Joback Method
hf	-302.83	kJ/mol	Joback Method
hfus	17.44	kJ/mol	Joback Method
hvap	63.70	kJ/mol	Joback Method
log10ws	-4.01		Crippen Method
logp	3.552		Crippen Method
mcvol	197.760	ml/mol	McGowan Method
pc	2191.78	kPa	Joback Method
rinpol	1636.00		NIST Webbook
rinpol	1630.00		NIST Webbook
rinpol	1600.00		NIST Webbook
rinpol	1644.00		NIST Webbook
rinpol	1644.00		NIST Webbook
rinpol	1644.00		NIST Webbook
rinpol	1644.00		NIST Webbook
rinpol	1636.00		NIST Webbook
rinpol	1644.00		NIST Webbook
rinpol	1646.00		NIST Webbook
rinpol	1647.00		NIST Webbook
rinpol	1650.00		NIST Webbook
rinpol	1614.00		NIST Webbook
rinpol	1602.00		NIST Webbook
rinpol	1649.00		NIST Webbook
rinpol	1650.00		NIST Webbook
rinpol	1644.00		NIST Webbook
rinpol	1652.00		NIST Webbook
rinpol	1622.00		NIST Webbook

rinpol	1644.00		NIST Webbook
rinpol	1655.00		NIST Webbook
rinpol	1596.00		NIST Webbook
rinpol	1654.00		NIST Webbook
rinpol	1619.00		NIST Webbook
rinpol	1652.00		NIST Webbook
rinpol	1644.00		NIST Webbook
ripol	2266.00		NIST Webbook
ripol	2266.00		NIST Webbook
ripol	2240.00		NIST Webbook
ripol	2203.00		NIST Webbook
tb	651.33	K	Joback Method
tc	864.46	K	Joback Method
tf	360.79	K	Joback Method
vc	0.734	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	577.13	J/mol×K	651.33	Joback Method
cpg	596.79	J/mol×K	686.85	Joback Method
cpg	615.30	J/mol×K	722.37	Joback Method
cpg	632.82	J/mol×K	757.89	Joback Method
cpg	649.50	J/mol×K	793.42	Joback Method
cpg	665.50	J/mol×K	828.94	Joback Method
cpg	680.98	J/mol×K	864.46	Joback Method

Sources

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=C51317089&Units=SI

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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