14-Hydroxymuurolene

Inchi: InChI=1S/C15H24O/c1-10(2)13-6-4-11(3)14-7-5-12(9-16)8-15(13)14/h4,8,10,13-16H,5-7
InchiKey: DFIKBBWSGFHYMP-QLFBSQMISA-N
Formula: C15H24O
SMILES: CC1=CCC(C(C)C)C2C=C(CO)CCC12
Mol. weight [g/mol]: 220.35

Physical Properties

Property code	Value	Unit	Source
gf	42.21	kJ/mol	Joback Method
hf	-317.20	kJ/mol	Joback Method
hfus	25.78	kJ/mol	Joback Method
hvap	67.39	kJ/mol	Joback Method
log10ws	-3.89		Crippen Method
logp	3.554		Crippen Method
mcvol	197.760	ml/mol	McGowan Method
pc	2086.93	kPa	Joback Method
rinpol	1624.00		NIST Webbook
tb	668.51	K	Joback Method
tc	869.60	K	Joback Method
tf	348.75	K	Joback Method
vc	0.742	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	576.51	J/mol×K	668.51	Joback Method
cpg	594.95	J/mol×K	702.02	Joback Method
cpg	612.33	J/mol×K	735.54	Joback Method
cpg	628.69	J/mol×K	769.05	Joback Method
cpg	644.06	J/mol×K	802.57	Joback Method
cpg	658.50	J/mol×K	836.08	Joback Method
cpg	672.04	J/mol×K	869.60	Joback Method
dvisc	0.0048013	Pa×s	348.75	Joback Method
dvisc	0.0016816	Pa×s	402.04	Joback Method

dvisc	0.0007529	Pa×s	455.34	Joback Method
dvisc	0.0003989	Pa×s	508.63	Joback Method
dvisc	0.0002384	Pa×s	561.92	Joback Method
dvisc	0.0001558	Pa×s	615.22	Joback Method
dvisc	0.0001089	Pa×s	668.51	Joback Method

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=R202881&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
dvisc:	Dynamic viscosity
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