Muurola-4,10(14)-dien-8«beta»-ol

Inchi: InChI=1S/C15H24O/c1-9(2)15-13-7-10(3)5-6-12(13)11(4)8-14(15)16/h7,9,12-16H,4-6,8H
InchiKey: UHPAOJOYWJZLCG-CVSAEHQPSA-N
Formula: C15H24O
SMILES: C=C1CC(O)C(C(C)C)C2C=C(C)CCC12
Mol. weight [g/mol]: 220.35

Physical Properties

Property code	Value	Unit	Source
gf	67.25	kJ/mol	Joback Method
hf	-299.61	kJ/mol	Joback Method
hfus	24.86	kJ/mol	Joback Method
hvap	66.28	kJ/mol	Joback Method
log10ws	-4.01		Crippen Method
logp	3.552		Crippen Method
mcvol	197.760	ml/mol	McGowan Method
pc	2021.76	kPa	Joback Method
rinpol	1632.00		NIST Webbook
tb	658.86	K	Joback Method
tc	858.82	K	Joback Method
tf	344.91	K	Joback Method
vc	0.739	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	577.43	J/mol×K	658.86	Joback Method
cpg	596.53	J/mol×K	692.19	Joback Method
cpg	614.55	J/mol×K	725.51	Joback Method
cpg	631.52	J/mol×K	758.84	Joback Method
cpg	647.47	J/mol×K	792.17	Joback Method
cpg	662.43	J/mol×K	825.50	Joback Method
cpg	676.45	J/mol×K	858.82	Joback Method
dvisc	0.0046470	Pa×s	344.91	Joback Method
dvisc	0.0017837	Pa×s	397.24	Joback Method

dvisc	0.0008556	Pa×s	449.56	Joback Method
dvisc	0.0004784	Pa×s	501.88	Joback Method
dvisc	0.0002985	Pa×s	554.21	Joback Method
dvisc	0.0002020	Pa×s	606.54	Joback Method
dvisc	0.0001455	Pa×s	658.86	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R233206&Units=SI
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

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