

Muurola-4,10(14)-dien-8«alpha»-ol

Other names:	Muurola-4,10(14)-dien-8a-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-WUCCLRPBSA-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	1642.00		NIST Webbook
rinpol	1642.00		NIST Webbook
tb	658.86	K	Joback Method
tc	858.82	K	Joback Method
tf	344.91	K	Joback Method
vc	0.739	m ³ /kmol	Joback Method

Temperature Dependent Properties

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

dvisc	0.0001455	Paxs	658.86	Joback Method
dvisc	0.0002020	Paxs	606.54	Joback Method
dvisc	0.0002985	Paxs	554.21	Joback Method
dvisc	0.0004784	Paxs	501.88	Joback Method
dvisc	0.0008556	Paxs	449.56	Joback Method
dvisc	0.0017837	Paxs	397.24	Joback Method
dvisc	0.0046470	Paxs	344.91	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R233197&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

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

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