

5,9-Undecadien-2-ol, 6,10-dimethyl-

Other names:	2,6-Dimethyl-2,6-undecadien-10-ol 6,10-Dimethyl-5,9-undecadien-2-ol 6,10-Dimethylundeca-5,9-dien-2-ol geranylacetol [6,10-dimethyl-(E)-5,9-undecadien-2-ol]
Inchi:	InChI=1S/C13H24O/c1-11(2)7-5-8-12(3)9-6-10-13(4)14/h7,9,13-14H,5-6,8,10H2,1-4H3/b
InchiKey:	LYFDNQZGOHRKNK-FMIVXFBMSA-N
Formula:	C13H24O
SMILES:	CC(C)=CCCC(C)=CCCC(C)O
Mol. weight [g/mol]:	196.33
CAS:	53837-34-6

Physical Properties

Property code	Value	Unit	Source
gf	62.66	kJ/mol	Joback Method
hf	-254.30	kJ/mol	Joback Method
hfus	27.77	kJ/mol	Joback Method
hvap	60.90	kJ/mol	Joback Method
log10ws	-4.35		Crippen Method
logp	3.840		Crippen Method
mcvol	191.300	ml/mol	McGowan Method
pc	1971.80	kPa	Joback Method
ripol	1459.00		NIST Webbook
ripol	1459.00		NIST Webbook
ripol	1943.00		NIST Webbook
ripol	1968.00		NIST Webbook
ripol	1954.00		NIST Webbook
tb	596.66	K	Joback Method
tc	772.51	K	Joback Method
tf	244.01	K	Joback Method
vc	0.739	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	490.48	J/mol×K	596.66	Joback Method
cpg	505.52	J/mol×K	625.97	Joback Method
cpg	519.84	J/mol×K	655.28	Joback Method
cpg	533.48	J/mol×K	684.58	Joback Method
cpg	546.48	J/mol×K	713.89	Joback Method
cpg	558.87	J/mol×K	743.20	Joback Method
cpg	570.71	J/mol×K	772.51	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C53837346&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
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

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