

Valerenol (trans)

Inchi:	InChI=1S/C15H24O/c1-10(9-16)8-13-6-4-11(2)14-7-5-12(3)15(13)14/h8,11,13-14,16H,4-
InchiKey:	KIQXKOUFPHTUQS-CSKARUKUSA-N
Formula:	C15H24O
SMILES:	CC(=CC1CCC(C)C2CCC(C)=C12)CO
Mol. weight [g/mol]:	220.35
CAS:	101628-22-2

Physical Properties

Property code	Value	Unit	Source
gf	98.46	kJ/mol	Joback Method
hf	-256.11	kJ/mol	Joback Method
hfus	29.07	kJ/mol	Joback Method
hvap	67.35	kJ/mol	Joback Method
log10ws	-4.14		Crippen Method
logp	3.698		Crippen Method
mcvol	197.760	ml/mol	McGowan Method
pc	2064.24	kPa	Joback Method
rinpol	1736.40		NIST Webbook
rinpol	1699.00		NIST Webbook
rinpol	1736.40		NIST Webbook
tb	669.56	K	Joback Method
tc	870.07	K	Joback Method
tf	347.47	K	Joback Method
vc	0.750	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	574.51	J/molxK	669.56	Joback Method
cpg	592.58	J/molxK	702.98	Joback Method
cpg	609.62	J/molxK	736.40	Joback Method
cpg	625.71	J/molxK	769.82	Joback Method
cpg	640.89	J/molxK	803.24	Joback Method
cpg	655.23	J/molxK	836.66	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C101628222&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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

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