

4a,trans-8a-Perhydro-cis-2-(2-hydroxy-2-propyl)-4

Other names:	2-(4a,8-Dimethyldecahydro-2-naphthalenyl)-2-propanol-, [2R-(2«alpha»,4a«alpha»,8«alpha»,8a«beta»)]- Dihydroeudesmol 2-Naphthalenemethanol, 1,2«alpha»,3,4,4a,5,6,7,8,8a«alpha»-decahydro-«alpha»,«alpha»a,4a«beta»,8«alpha»- Eudesmol, dihydro-
Inchi:	InChI=1S/C15H28O/c1-11-6-5-8-15(4)9-7-12(10-13(11)15)14(2,3)16/h11-13,16H,5-10H2
InchiKey:	YJHVMPKSUPGGPZ-UHFFFAOYSA-N
Formula:	C15H28O
SMILES:	CC1CCCC2(C)CCC(C(C)(C)O)CC12
Mol. weight [g/mol]:	224.38
CAS:	6770-16-7

Physical Properties

Property code	Value	Unit	Source
gf	-6.37	kJ/mol	Joback Method
hf	-418.39	kJ/mol	Joback Method
hfus	14.99	kJ/mol	Joback Method
hvap	63.11	kJ/mol	Joback Method
log10ws	-4.30		Crippen Method
logp	4.000		Crippen Method
mcvol	206.360	ml/mol	McGowan Method
pc	2051.17	kPa	Joback Method
rinpol	1646.00		NIST Webbook
rinpol	1659.00		NIST Webbook
rinpol	1628.00		NIST Webbook
rinpol	1627.00		NIST Webbook
rinpol	1659.00		NIST Webbook
rinpol	1646.00		NIST Webbook
ripol	2216.00		NIST Webbook
ripol	2216.00		NIST Webbook
tb	653.01	K	Joback Method
tc	862.60	K	Joback Method
tf	359.27	K	Joback Method
vc	0.761	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	622.48	J/mol×K	653.01	Joback Method
cpg	644.09	J/mol×K	687.94	Joback Method
cpg	664.49	J/mol×K	722.87	Joback Method
cpg	683.82	J/mol×K	757.80	Joback Method
cpg	702.24	J/mol×K	792.74	Joback Method
cpg	719.89	J/mol×K	827.67	Joback Method
cpg	736.91	J/mol×K	862.60	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=C6770167&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
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
ripol:	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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