2-Naphthalenemethanol, 1,2,3,4,4a,8a-hexahydro-«alpha»,«alpha»,4a,8-tetr [2R-(2«alpha»,4a«alpha»,8a«alpha»)]-

Other names: Occidentalol
Inchi: InChI=1S/C15H24O/c1-11-6-5-8-15(4)9-7-12(10-13(11)15)14(2,3)16/h5-6,8,12-13,16H,7
InchiKey: AMZWKSYAMHGGSR-UHFFFAOYSA-N
Formula: C15H24O
SMILES: CC1=CC=CC2(C)CCC(C(C)(C)O)CC12
Mol. weight [g/mol]: 220.35
CAS: 29484-47-7

Physical Properties

Property code	Value	Unit	Source
gf	51.63	kJ/mol	Joback Method
hf	-293.96	kJ/mol	Joback Method
hfus	15.98	kJ/mol	Joback Method
hvap	64.67	kJ/mol	Joback Method
log10ws	-4.25		Crippen Method
logp	3.696		Crippen Method
mcvol	197.760	ml/mol	McGowan Method
pc	2229.20	kPa	Joback Method
rinpol	1548.00		NIST Webbook
tb	660.98	K	Joback Method
tc	875.00	K	Joback Method
tf	377.55	K	Joback Method
vc	0.735	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	575.18	J/mol×K	660.98	Joback Method
cpg	594.14	J/mol×K	696.65	Joback Method
cpg	612.03	J/mol×K	732.32	Joback Method
cpg	629.01	J/mol×K	767.99	Joback Method
cpg	645.25	J/mol×K	803.66	Joback Method
cpg	660.89	J/mol×K	839.33	Joback Method
cpg	676.10	J/mol×K	875.00	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=C29484477&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume