Alpha-n-hexyl benzyl alcohol

Inchi: InChI=1S/C13H20O/c1-2-3-4-8-11-13(14)12-9-6-5-7-10-12/h5-7,9-10,13-14H,2-4,8,11H2
InchiKey: UAJVCELPUNHGKE-UHFFFAOYSA-N
Formula: C13H20O
SMILES: CCCCCCC(O)c1ccccc1
Mol. weight [g/mol]: 192.30
CAS: 614-54-0

Physical Properties

Property code	Value	Unit	Source
gf	31.73	kJ/mol	Joback Method
hf	-232.63	kJ/mol	Joback Method
hfus	24.03	kJ/mol	Joback Method
hvap	63.10	kJ/mol	Joback Method
log10ws	-4.09		Crippen Method
logp	3.690		Crippen Method
mcvol	176.140	ml/mol	McGowan Method
pc	2414.74	kPa	Joback Method
tb	615.26	K	Joback Method
tc	804.50	K	Joback Method
tf	308.51	K	Joback Method
vc	0.668	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	457.28	J/mol×K	615.26	Joback Method
cpg	472.05	J/mol×K	646.80	Joback Method
cpg	486.03	J/mol×K	678.34	Joback Method
cpg	499.25	J/mol×K	709.88	Joback Method
cpg	511.72	J/mol×K	741.42	Joback Method
cpg	523.50	J/mol×K	772.96	Joback Method
cpg	534.62	J/mol×K	804.50	Joback Method
dvisc	0.0129561	Pa×s	308.51	Joback Method
dvisc	0.0027991	Pa×s	359.63	Joback Method

dvisc	0.0008855	Pa×s	410.76	Joback Method
dvisc	0.0003614	Pa×s	461.88	Joback Method
dvisc	0.0001764	Pa×s	513.01	Joback Method
dvisc	0.0000980	Pa×s	564.13	Joback Method
dvisc	0.0000601	Pa×s	615.26	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C614540&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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