6-Phenyl-n-hexanol

Other names: 6-Phenyl-1-hexanol
6-Phenyl hexanol-1
Inchi: InChI=1S/C12H18O/c13-11-7-2-1-4-8-12-9-5-3-6-10-12/h3,5-6,9-10,13H,1-2,4,7-8,11H2
InchiKey: FDXBUMXUJRZANT-UHFFFAOYSA-N
Formula: C12H18O
SMILES: OCCCCCCc1ccccc1
Mol. weight [g/mol]: 178.27
CAS: 2430-16-2

Physical Properties

Property code	Value	Unit	Source
gf	25.75	kJ/mol	Joback Method
hf	-206.71	kJ/mol	Joback Method
hfus	24.96	kJ/mol	Joback Method
hvap	61.26	kJ/mol	Joback Method
log10ws	-3.21		Crippen Method
logp	2.782		Crippen Method
mcvol	162.050	ml/mol	McGowan Method
pc	2637.96	kPa	Joback Method
tb	592.82	K	Joback Method
tc	780.69	K	Joback Method
tf	312.24	K	Joback Method
vc	0.619	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	406.89	J/mol×K	592.82	Joback Method
cpg	469.28	J/mol×K	749.38	Joback Method
cpg	458.16	J/mol×K	718.07	Joback Method
cpg	446.39	J/mol×K	686.76	Joback Method
cpg	433.94	J/mol×K	655.44	Joback Method
cpg	420.79	J/mol×K	624.13	Joback Method
cpg	479.78	J/mol×K	780.69	Joback Method

dvisc	0.0000763	Pa×s	592.82	Joback Method
dvisc	0.0001210	Pa×s	546.06	Joback Method
dvisc	0.0002093	Pa×s	499.29	Joback Method
dvisc	0.0004053	Pa×s	452.53	Joback Method
dvisc	0.0009140	Pa×s	405.77	Joback Method
dvisc	0.0025477	Pa×s	359.00	Joback Method
dvisc	0.0096540	Pa×s	312.24	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=C2430162&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
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

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