

8-Phenyl-1-octanol

Inchi:	InChI=1S/C14H22O/c15-13-9-4-2-1-3-6-10-14-11-7-5-8-12-14/h5,7-8,11-12,15H,1-4,6,9-
InchiKey:	MGIGATOGROSKNW-UHFFFAOYSA-N
Formula:	C14H22O
SMILES:	OCCCCCCCCc1ccccc1
Mol. weight [g/mol]:	206.32
CAS:	10472-97-6

Physical Properties

Property code	Value	Unit	Source
gf	42.59	kJ/mol	Joback Method
hf	-247.99	kJ/mol	Joback Method
hfus	30.14	kJ/mol	Joback Method
hvap	65.71	kJ/mol	Joback Method
log10ws	-4.05		Crippen Method
logp	3.562		Crippen Method
mcvol	190.230	ml/mol	McGowan Method
pc	2185.64	kPa	Joback Method
tb	638.58	K	Joback Method
tc	822.87	K	Joback Method
tf	334.78	K	Joback Method
vc	0.731	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	508.29	J/molxK	638.58	Joback Method
cpg	523.28	J/molxK	669.29	Joback Method
cpg	537.49	J/molxK	700.01	Joback Method
cpg	550.94	J/molxK	730.72	Joback Method
cpg	563.67	J/molxK	761.44	Joback Method
cpg	575.72	J/molxK	792.15	Joback Method
cpg	587.11	J/molxK	822.87	Joback Method
dvisc	0.0066158	Paxs	334.78	Joback Method
dvisc	0.0017549	Paxs	385.41	Joback Method

dvisc	0.0006335	Paxs	436.05	Joback Method
dvisc	0.0002827	Paxs	486.68	Joback Method
dvisc	0.0001469	Paxs	537.31	Joback Method
dvisc	0.0000854	Paxs	587.95	Joback Method
dvisc	0.0000541	Paxs	638.58	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C10472976&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

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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