

Cyclohexanol, 2-phenyl-

Other names:	2-Phenylcyclohexanol Insect repellent 448 Esnn 2-Fenylcyklohexanol
Inchi:	InChI=1S/C12H16O/c13-12-9-5-4-8-11(12)10-6-2-1-3-7-10/h1-3,6-7,11-13H,4-5,8-9H2
InchiKey:	AAIBYZBZXNWTPP-UHFFFAOYSA-N
Formula:	C12H16O
SMILES:	OC1CCCCC1c1ccccc1
Mol. weight [g/mol]:	176.25
CAS:	1444-64-0

Physical Properties

Property code	Value	Unit	Source
gf	42.49	kJ/mol	Joback Method
hf	-172.73	kJ/mol	Joback Method
hfus	17.87	kJ/mol	Joback Method
hvap	61.38	kJ/mol	Joback Method
log10ws	-3.18		Crippen Method
logp	2.705		Crippen Method
mcvol	151.190	ml/mol	McGowan Method
pc	3173.97	kPa	Joback Method
tb	607.70	K	Joback Method
tc	828.54	K	Joback Method
tf	315.38	K	Joback Method
vc	0.550	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	398.39	J/molxK	607.70	Joback Method
cpg	474.08	J/molxK	791.73	Joback Method
cpg	461.09	J/molxK	754.93	Joback Method
cpg	447.07	J/molxK	718.12	Joback Method
cpg	431.98	J/molxK	681.31	Joback Method

cpg	415.76	J/molxK	644.51	Joback Method
cpg	486.08	J/molxK	828.54	Joback Method
dvisc	0.0000893	Paxs	607.70	Joback Method
dvisc	0.0001387	Paxs	558.98	Joback Method
dvisc	0.0002344	Paxs	510.26	Joback Method
dvisc	0.0004423	Paxs	461.54	Joback Method
dvisc	0.0009697	Paxs	412.82	Joback Method
dvisc	0.0026230	Paxs	364.10	Joback Method
dvisc	0.0096489	Paxs	315.38	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1444640&Units=SI

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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