

Benzenemethanol, 2-(phenylmethyl)-

Other names:	Benzyl alcohol, o-benzyl- 2-Benzylbenzyl alcohol
Inchi:	InChI=1S/C14H14O/c15-11-14-9-5-4-8-13(14)10-12-6-2-1-3-7-12/h1-9,15H,10-11H2
InchiKey:	GTKWHQWJTVWORA-UHFFFAOYSA-N
Formula:	C14H14O
SMILES:	OCc1ccccc1Cc1ccccc1
Mol. weight [g/mol]:	198.26
CAS:	1586-00-1

Physical Properties

Property code	Value	Unit	Source
gf	145.37	kJ/mol	Joback Method
hf	-22.93	kJ/mol	Joback Method
hfus	23.80	kJ/mol	Joback Method
hvap	68.65	kJ/mol	Joback Method
log10ws	-3.71		Crippen Method
logp	2.770		Crippen Method
mvol	166.470	ml/mol	McGowan Method
pc	3009.03	kPa	Joback Method
tb	670.24	K	Joback Method
tc	890.87	K	Joback Method
tf	373.72	K	Joback Method
vc	0.623	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	427.64	J/molxK	670.24	Joback Method
cpg	441.29	J/molxK	707.01	Joback Method
cpg	453.97	J/molxK	743.78	Joback Method
cpg	465.74	J/molxK	780.56	Joback Method
cpg	476.65	J/molxK	817.33	Joback Method
cpg	486.77	J/molxK	854.10	Joback Method
cpg	496.15	J/molxK	890.87	Joback Method

dvisc	0.0026100	Paxs	373.72	Joback Method
dvisc	0.0009122	Paxs	423.14	Joback Method
dvisc	0.0003972	Paxs	472.56	Joback Method
dvisc	0.0002025	Paxs	521.98	Joback Method
dvisc	0.0001159	Paxs	571.40	Joback Method
dvisc	0.0000726	Paxs	620.82	Joback Method
dvisc	0.0000487	Paxs	670.24	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1586001&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

Latest version available from:

<https://www.chemeo.com/cid/74-205-2/Benzenemethanol-2-phenylmethyl.pdf>

Generated by Cheméo on 2024-04-25 07:38:57.607427379 +0000 UTC m=+16319986.528004691.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.