Benzeneethanol, «beta»-methyl-«beta»-phenyl-

Other names: 1-Propanol, 2,2-diphenyl-
2,2-diphenylpropan-1-ol
Inchi: InChI=1S/C15H16O/c1-15(12-16,13-8-4-2-5-9-13)14-10-6-3-7-11-14/h2-11,16H,12H2,1H
InchiKey: WAUNMVYXQAKNLE-UHFFFAOYSA-N
Formula: C15H16O
SMILES: CC(CO)(c1ccccc1)c1ccccc1
Mol. weight [g/mol]: 212.29
CAS: 74421-26-4

Physical Properties

Property code	Value	Unit	Source
gf	166.26	kJ/mol	Joback Method
hf	-40.85	kJ/mol	Joback Method
hfus	19.36	kJ/mol	Joback Method
hvap	68.92	kJ/mol	Joback Method
log10ws	-3.35		Crippen Method
logp	2.985		Crippen Method
mcvol	180.560	ml/mol	McGowan Method
pc	2814.34	kPa	Joback Method
tb	684.91	K	Joback Method
tc	912.98	K	Joback Method
tf	374.89	K	Joback Method
vc	0.667	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	482.88	J/mol×K	684.91	Joback Method
cpg	546.08	J/mol×K	874.97	Joback Method
cpg	535.40	J/mol×K	836.96	Joback Method
cpg	523.83	J/mol×K	798.95	Joback Method
cpg	511.29	J/mol×K	760.93	Joback Method
cpg	497.67	J/mol×K	722.92	Joback Method
cpg	555.99	J/mol×K	912.98	Joback Method

dvisc	0.0000360	Pa×s	684.91	Joback Method
dvisc	0.0000562	Pa×s	633.24	Joback Method
dvisc	0.0000951	Pa×s	581.57	Joback Method
dvisc	0.0001784	Pa×s	529.90	Joback Method
dvisc	0.0003832	Pa×s	478.23	Joback Method
dvisc	0.0009906	Pa×s	426.56	Joback Method
dvisc	0.0033272	Pa×s	374.89	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C74421264&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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

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