

Benzeneethanol, «alpha»-methyl-«alpha»-phenyl-

Inchi:	InChI=1S/C15H16O/c1-15(16,14-10-6-3-7-11-14)12-13-8-4-2-5-9-13/h2-11,16H,12H2,1H
InchiKey:	QRKNKDBJZVZQNE-UHFFFAOYSA-N
Formula:	C15H16O
SMILES:	CC(O)(Cc1ccccc1)c1ccccc1
Mol. weight [g/mol]:	212.29
CAS:	5342-87-0

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	-3.74		Crippen Method
logp	3.137		Crippen Method
mcvol	180.560	ml/mol	McGowan Method
pc	2814.34	kPa	Joback Method
tb	563.70	K	NIST Webbook
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/molxK	684.91	Joback Method
cpg	546.08	J/molxK	874.97	Joback Method
cpg	535.40	J/molxK	836.96	Joback Method
cpg	523.83	J/molxK	798.95	Joback Method
cpg	511.29	J/molxK	760.93	Joback Method
cpg	497.67	J/molxK	722.92	Joback Method
cpg	555.99	J/molxK	912.98	Joback Method
dvisc	0.0000360	Paxs	684.91	Joback Method
dvisc	0.0000562	Paxs	633.24	Joback Method

dvisc	0.0000951	Paxs	581.57	Joback Method
dvisc	0.0001784	Paxs	529.90	Joback Method
dvisc	0.0003832	Paxs	478.23	Joback Method
dvisc	0.0009906	Paxs	426.56	Joback Method
dvisc	0.0033272	Paxs	374.89	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5342870&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
mccvol:	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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