

Benzenemethanol, alpha-cyclopropyl-alpha-phenyl-

Other names:	alpha-cyclopropylbenzhydrylic alcohol
Inchi:	InChI=1S/C16H16O/c17-16(15-11-12-15,13-7-3-1-4-8-13)14-9-5-2-6-10-14/h1-10,15,17H
InchiKey:	MFKPHBJFWOEDT-UHFFFAOYSA-N
Formula:	C16H16O
SMILES:	OC(c1ccccc1)(c1ccccc1)C1CC1
Mol. weight [g/mol]:	224.30
CAS:	5785-66-0

Physical Properties

Property code	Value	Unit	Source
gf	235.43	kJ/mol	Joback Method
hf	11.31	kJ/mol	Joback Method
hfus	20.09	kJ/mol	Joback Method
hvap	71.06	kJ/mol	Joback Method
log10ws	-3.91		Crippen Method
logp	3.332		Crippen Method
mcvol	183.790	ml/mol	McGowan Method
pc	2918.68	kPa	Joback Method
tb	714.53	K	Joback Method
tc	952.99	K	Joback Method
tf	404.10	K	Joback Method
vc	0.680	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	519.42	J/molxK	714.53	Joback Method
cpg	585.13	J/molxK	913.25	Joback Method
cpg	573.90	J/molxK	873.50	Joback Method
cpg	561.87	J/molxK	833.76	Joback Method
cpg	548.89	J/molxK	794.02	Joback Method
cpg	534.79	J/molxK	754.27	Joback Method
cpg	595.72	J/molxK	952.99	Joback Method
dvisc	0.0000809	Paxs	714.53	Joback Method

dvisc	0.0001164	Paxs	662.79	Joback Method
dvisc	0.0001780	Paxs	611.05	Joback Method
dvisc	0.0002947	Paxs	559.32	Joback Method
dvisc	0.0005405	Paxs	507.58	Joback Method
dvisc	0.0011375	Paxs	455.84	Joback Method
dvisc	0.0028970	Paxs	404.10	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5785660&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

Legend

cp_g:	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:	Log ₁₀ 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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