Proclonol

Other names:	Benzenemethanol, 4-chloro-«alpha»-(4-chlorophenyl)-«alpha»-cyclopropyl- Methanol, bis(p-chlorophenyl)cyclopropyl- Bis(p-chlorophenyl)cyclopropylcarbinol Bis(p-chlorophenyl)cyclopropylmethanol CL 69049 Di(p-chlorophenyl)cyclopropylmethanol Dupont DPX 3654 DPX 3654 R 8284 Kilacar Proclono
Inchi:	InChI=1S/C16H14Cl2O/c17-14-7-3-12(4-8-14)16(19,11-1-2-11)13-5-9-15(18)10-6-13/h3-
InchiKey:	BKAYSPSVVJBHHK-UHFFFAOYSA-N
Formula:	C16H14Cl2O
SMILES:	OC(c1ccc(Cl)cc1)(c1ccc(Cl)cc1)C1CC1
Mol. weight [g/mol]:	293.19
CAS:	14088-71-2

Physical Properties

Property code	Value	Unit	Source
gf	192.31	kJ/mol	Joback Method
hf	-43.11	kJ/mol	Joback Method
hfus	27.70	kJ/mol	Joback Method
hvap	81.15	kJ/mol	Joback Method
log10ws	-5.28		Crippen Method
logp	4.639		Crippen Method
mcvol	208.270	ml/mol	McGowan Method
pc	2616.41	kPa	Joback Method
rinpol	2182.00		NIST Webbook
rinpol	2182.00		NIST Webbook
tb	799.35	K	Joback Method
tc	1043.72	K	Joback Method
tf	488.98	K	Joback Method
vc	0.778	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	564.18	J/mol×K	799.35	Joback Method
cpg	576.66	J/mol×K	840.08	Joback Method
cpg	588.20	J/mol×K	880.81	Joback Method
cpg	598.97	J/mol×K	921.54	Joback Method
cpg	609.10	J/mol×K	962.26	Joback Method
cpg	618.77	J/mol×K	1002.99	Joback Method
cpg	628.11	J/mol×K	1043.72	Joback Method
dvisc	0.0009929	Pa×s	488.98	Joback Method
dvisc	0.0004940	Pa×s	540.71	Joback Method
dvisc	0.0002776	Pa×s	592.44	Joback Method
dvisc	0.0001712	Pa×s	644.16	Joback Method
dvisc	0.0001134	Pa×s	695.89	Joback Method
dvisc	0.0000795	Pa×s	747.62	Joback Method
dvisc	0.0000584	Pa×s	799.35	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C14088712&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume