triphenylmethane, 3,4-dichloro

Inchi: InChI=1S/C19H14Cl2/c20-17-12-11-16(13-18(17)21)19(14-7-3-1-4-8-14)15-9-5-2-6-10-15
InchiKey: YPMBTMFUNZQHSY-UHFFFAOYSA-N
Formula: C19H14Cl2
SMILES: Clc1ccc(C(c2ccccc2)c2ccccc2)cc1Cl
Mol. weight [g/mol]: 313.22

Physical Properties

Property code	Value	Unit	Source
gf	400.77	kJ/mol	Joback Method
hf	214.40	kJ/mol	Joback Method
hfus	31.18	kJ/mol	Joback Method
hvap	74.42	kJ/mol	Joback Method
log10ws	-6.62		Crippen Method
logp	6.174		Crippen Method
mcvol	231.770	ml/mol	McGowan Method
pc	2173.43	kPa	Joback Method
rinpol	386.30		NIST Webbook
tb	798.54	K	Joback Method
tc	1071.12	K	Joback Method
tf	453.03	K	Joback Method
vc	0.868	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	598.30	J/mol×K	798.54	Joback Method
cpg	613.41	J/mol×K	843.97	Joback Method
cpg	627.05	J/mol×K	889.40	Joback Method
cpg	639.36	J/mol×K	934.83	Joback Method
cpg	650.48	J/mol×K	980.26	Joback Method
cpg	660.56	J/mol×K	1025.69	Joback Method
cpg	669.76	J/mol×K	1071.12	Joback Method
dvisc	0.0009183	Pa×s	453.03	Joback Method
dvisc	0.0004956	Pa×s	510.62	Joback Method

dvisc	0.0003031	Pa×s	568.20	Joback Method
dvisc	0.0002029	Pa×s	625.78	Joback Method
dvisc	0.0001453	Pa×s	683.37	Joback Method
dvisc	0.0001097	Pa×s	740.95	Joback Method
dvisc	0.0000862	Pa×s	798.54	Joback Method

Sources

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

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=R522566&Units=SI

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