Triphenylmethane, 4,4'-dichloro

Inchi: InChI=1S/C19H14Cl2/c20-17-10-6-15(7-11-17)19(14-4-2-1-3-5-14)16-8-12-18(21)13-9-1
InchiKey: IKAGDIWPCLTVRI-UHFFFAOYSA-N
Formula: C19H14Cl2
SMILES: Clc1ccc(C(c2ccccc2)c2ccc(Cl)cc2)cc1
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	391.40		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	660.56	J/mol×K	1025.69	Joback Method
cpg	650.48	J/mol×K	980.26	Joback Method
cpg	639.36	J/mol×K	934.83	Joback Method
cpg	627.05	J/mol×K	889.40	Joback Method
cpg	613.41	J/mol×K	843.97	Joback Method
cpg	669.76	J/mol×K	1071.12	Joback Method
dvisc	0.0000862	Pa×s	798.54	Joback Method
dvisc	0.0001097	Pa×s	740.95	Joback Method

dvisc	0.0001453	Pa×s	683.37	Joback Method
dvisc	0.0002029	Pa×s	625.78	Joback Method
dvisc	0.0003031	Pa×s	568.20	Joback Method
dvisc	0.0004956	Pa×s	510.62	Joback Method
dvisc	0.0009183	Pa×s	453.03	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=R396293&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

Latest version available from:
https://www.chemeo.com/cid/91-826-4/Triphenylmethane-4-4-dichloro.pdf
Generated by Cheméo on 2024-10-12 05:57:36.273126021 +0000 UTC m=+3293518.910095271.
Cheméo (https://www.chemeo.com) is the biggest free database of chemical and physical data for the process industry.