Triphenylmethane, 4-chloro

Inchi: InChI=1S/C19H15Cl/c20-18-13-11-17(12-14-18)19(15-7-3-1-4-8-15)16-9-5-2-6-10-16/h1-
InchiKey: BPKFOVGOXFAPRI-UHFFFAOYSA-N
Formula: C19H15Cl
SMILES: Clc1ccc(C(c2ccccc2)c2ccccc2)cc1
Mol. weight [g/mol]: 278.77

Physical Properties

Property code	Value	Unit	Source
gf	422.33	kJ/mol	Joback Method
hf	241.61	kJ/mol	Joback Method
hfus	27.37	kJ/mol	Joback Method
hvap	69.38	kJ/mol	Joback Method
log10ws	-5.94		Crippen Method
logp	5.520		Crippen Method
mcvol	219.530	ml/mol	McGowan Method
pc	2282.77	kPa	Joback Method
rinpol	362.00		NIST Webbook
rinpol	362.00		NIST Webbook
tb	756.13	K	Joback Method
tc	1026.82	K	Joback Method
tf	410.59	K	Joback Method
vc	0.819	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	575.61	J/mol×K	756.13	Joback Method
cpg	592.52	J/mol×K	801.25	Joback Method
cpg	607.81	J/mol×K	846.36	Joback Method
cpg	621.63	J/mol×K	891.48	Joback Method
cpg	634.13	J/mol×K	936.59	Joback Method
cpg	645.46	J/mol×K	981.71	Joback Method
cpg	655.77	J/mol×K	1026.82	Joback Method
dvisc	0.0013116	Pa×s	410.59	Joback Method

dvisc	0.0006472	Pa×s	468.18	Joback Method
dvisc	0.0003728	Pa×s	525.77	Joback Method
dvisc	0.0002395	Pa×s	583.36	Joback Method
dvisc	0.0001665	Pa×s	640.95	Joback Method
dvisc	0.0001230	Pa×s	698.54	Joback Method
dvisc	0.0000951	Pa×s	756.13	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R396302&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