

Triphenylmethane, 3-chloro

Inchi:	InChI=1S/C19H15Cl/c20-18-13-7-12-17(14-18)19(15-8-3-1-4-9-15)16-10-5-2-6-11-16/h1
InchiKey:	SDIGIJTRTZHMD-UHFFFAOYSA-N
Formula:	C19H15Cl
SMILES:	Clc1cccc(C(c2ccccc2)c2ccccc2)c1
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	358.00		NIST Webbook
tb	756.13	K	Joback Method
tc	1026.82	K	Joback Method
tf	410.59	K	Joback Method
vc	0.819	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	575.61	J/molxK	756.13	Joback Method
cpg	592.52	J/molxK	801.25	Joback Method
cpg	607.81	J/molxK	846.36	Joback Method
cpg	621.63	J/molxK	891.48	Joback Method
cpg	634.13	J/molxK	936.59	Joback Method
cpg	645.46	J/molxK	981.71	Joback Method
cpg	655.77	J/molxK	1026.82	Joback Method
dvisc	0.0013116	Paxs	410.59	Joback Method
dvisc	0.0006472	Paxs	468.18	Joback Method

dvisc	0.0003728	Paxs	525.77	Joback Method
dvisc	0.0002395	Paxs	583.36	Joback Method
dvisc	0.0001665	Paxs	640.95	Joback Method
dvisc	0.0001230	Paxs	698.54	Joback Method
dvisc	0.0000951	Paxs	756.13	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R396273&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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