

2,4-Dichloro-alpha-iodo toluene

Inchi:	InChI=1S/C7H5Cl2I/c8-6-2-1-5(4-10)7(9)3-6/h1-3H,4H2
InchiKey:	JASQNLDZUCSGKV-UHFFFAOYSA-N
Formula:	C7H5Cl2I
SMILES:	Clc1ccc(Cl)c(Cl)c1
Mol. weight [g/mol]:	286.93
CAS:	116529-35-2

Physical Properties

Property code	Value	Unit	Source
gf	135.47	kJ/mol	Joback Method
hf	71.17	kJ/mol	Joback Method
hfus	19.95	kJ/mol	Joback Method
hvap	52.92	kJ/mol	Joback Method
log10ws	-4.67		Crippen Method
logp	3.928		Crippen Method
mcvol	136.030	ml/mol	McGowan Method
pc	3522.09	kPa	Joback Method
tb	564.20	K	Joback Method
tc	828.29	K	Joback Method
tf	338.01	K	Joback Method
vc	0.505	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	223.24	J/molxK	564.20	Joback Method
cpg	231.66	J/molxK	608.22	Joback Method
cpg	239.37	J/molxK	652.23	Joback Method
cpg	246.43	J/molxK	696.25	Joback Method
cpg	252.88	J/molxK	740.26	Joback Method
cpg	258.78	J/molxK	784.28	Joback Method
cpg	264.19	J/molxK	828.29	Joback Method
dvisc	0.0019605	Paxs	338.01	Joback Method
dvisc	0.0012198	Paxs	375.71	Joback Method

dvisc	0.0008275	Paxs	413.41	Joback Method
dvisc	0.0005990	Paxs	451.11	Joback Method
dvisc	0.0004558	Paxs	488.80	Joback Method
dvisc	0.0003606	Paxs	526.50	Joback Method
dvisc	0.0002944	Paxs	564.20	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C116529352&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

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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
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/68-580-3/2-4-Dichloro-alpha-iodo-toluene.pdf>

Generated by Cheméo on 2024-04-28 06:08:16.83281214 +0000 UTC m=+16573745.753389461.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.