

2-Chloro-4-iodotoluene

Other names:	Benzene, 2-chloro-4-iodo-1-methyl-
Inchi:	InChI=1S/C7H6ClI/c1-5-2-3-6(9)4-7(5)8/h2-4H,1H3
InchiKey:	PJYASWQMTNSSL-UHFFFAOYSA-N
Formula:	C7H6ClI
SMILES:	Cc1ccc(I)cc1Cl
Mol. weight [g/mol]:	252.48
CAS:	83846-48-4

Physical Properties

Property code	Value	Unit	Source
gf	147.40	kJ/mol	Joback Method
hf	86.91	kJ/mol	Joback Method
hfus	15.75	kJ/mol	Joback Method
hvap	48.53	kJ/mol	Joback Method
log10ws	-3.78		Crippen Method
logp	3.253		Crippen Method
mcvol	123.790	ml/mol	McGowan Method
pc	3682.02	kPa	Joback Method
tb	526.77	K	Joback Method
tc	786.63	K	Joback Method
tf	308.09	K	Joback Method
vc	0.457	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	203.36	J/mol×K	526.77	Joback Method
cpg	242.95	J/mol×K	743.32	Joback Method
cpg	236.27	J/mol×K	700.01	Joback Method
cpg	229.02	J/mol×K	656.70	Joback Method
cpg	221.15	J/mol×K	613.39	Joback Method
cpg	212.62	J/mol×K	570.08	Joback Method
cpg	249.10	J/mol×K	786.63	Joback Method
dvisc	0.0003071	Paxs	526.77	Joback Method

dvisc	0.0003756	Paxs	490.32	Joback Method
dvisc	0.0004745	Paxs	453.88	Joback Method
dvisc	0.0006244	Paxs	417.43	Joback Method
dvisc	0.0008661	Paxs	380.98	Joback Method
dvisc	0.0012872	Paxs	344.54	Joback Method
dvisc	0.0021012	Paxs	308.09	Joback Method

Sources

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=C83846484&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cp_g:	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
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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