

# Naphthalene, 2,3,6-trichloro-

<b>Inchi:</b>	InChI=1S/C10H5Cl3/c11-8-2-1-6-4-9(12)10(13)5-7(6)3-8/h1-5H
<b>InchiKey:</b>	ZYTLBFKRYKUCMJ-UHFFFAOYSA-N
<b>Formula:</b>	C10H5Cl3
<b>SMILES:</b>	Clc1ccc2cc(Cl)c(Cl)cc2c1
<b>Mol. weight [g/mol]:</b>	231.51
<b>CAS:</b>	55720-40-6

## Physical Properties

Property code	Value	Unit	Source
gf	187.70	kJ/mol	Joback Method
hf	96.24	kJ/mol	Joback Method
hfus	24.14	kJ/mol	Joback Method
hvap	56.91	kJ/mol	Joback Method
log10ws	-5.33		Crippen Method
logp	4.800		Crippen Method
mcvol	145.260	ml/mol	McGowan Method
pc	3235.66	kPa	Joback Method
rinpol	1819.00		NIST Webbook
rinpol	1819.00		NIST Webbook
rinpol	1819.00		NIST Webbook
tb	601.09	K	Joback Method
tc	855.98	K	Joback Method
tf	388.90	K	Joback Method
vc	0.556	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	276.79	J/molxK	601.09	Joback Method
cpg	286.33	J/molxK	643.57	Joback Method
cpg	295.05	J/molxK	686.05	Joback Method
cpg	303.03	J/molxK	728.54	Joback Method
cpg	310.35	J/molxK	771.02	Joback Method
cpg	317.08	J/molxK	813.50	Joback Method

cpg	323.30	J/mol×K	855.98	Joback Method
dvisc	0.0012520	Paxs	388.90	Joback Method
dvisc	0.0009378	Paxs	424.27	Joback Method
dvisc	0.0007344	Paxs	459.63	Joback Method
dvisc	0.0005956	Paxs	495.00	Joback Method
dvisc	0.0004967	Paxs	530.36	Joback Method
dvisc	0.0004237	Paxs	565.73	Joback Method
dvisc	0.0003683	Paxs	601.09	Joback Method

## Sources

<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C55720406&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C55720406&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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