

1,2-Benzenedicarbonitrile, 3,4,5,6-tetrachloro-

Other names:	Phthalonitrile, tetrachloro- Tetrachlorophthalodinitrile Tetrachlorophthalonitrile 3,4,5,6-Tetrachlorophthalonitrile o-Phthalodinitrile, tetrachloro- o-Tcpn o-Tetrachlorophthalodinitrile 3,4,5,6-tetrachlorobenzene-1,2-dicarbonitrile
Inchi:	InChI=1S/C8Cl4N2/c9-5-3(1-13)4(2-14)6(10)8(12)7(5)11
InchiKey:	OQHZZGZASQSOB-UHFFFAOYSA-N
Formula:	C8Cl4N2
SMILES:	N#Cc1c(Cl)c(Cl)c(Cl)c(Cl)c1C#N
Mol. weight [g/mol]:	265.91
CAS:	1953-99-7

Physical Properties

Property code	Value	Unit	Source
gf	299.38	kJ/mol	Joback Method
hf	237.53	kJ/mol	Joback Method
hfus	28.37	kJ/mol	Joback Method
hvap	77.48	kJ/mol	Joback Method
log10ws	-4.92		Crippen Method
logp	4.044		Crippen Method
mcvol	151.540	ml/mol	McGowan Method
pc	2690.21	kPa	Joback Method
tb	787.90	K	Joback Method
tc	1048.40	K	Joback Method
tf	518.60	K	Joback Method
vc	0.624	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	267.96	J/mol×K	787.90	Joback Method

cpg	272.09	J/mol×K	831.32	Joback Method
cpg	275.82	J/mol×K	874.73	Joback Method
cpg	279.15	J/mol×K	918.15	Joback Method
cpg	282.09	J/mol×K	961.57	Joback Method
cpg	284.64	J/mol×K	1004.98	Joback Method
cpg	286.81	J/mol×K	1048.40	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1953997&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
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
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/38-926-2/1-2-Benzenedicarbonitrile-3-4-5-6-tetrachloro.pdf>

Generated by Cheméo on 2025-12-05 13:16:58.505070158 +0000 UTC m=+4688816.035110812.

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