

Benzene, 1,2,4,5-tetrachloro-3-nitro-

Other names:	Chipman 3,142 Folosan Folosan DB-905 Fusarex Myfusan Tecnazen Tetrachloronitrobenzene TCNB 1,2,4,5-Tetrachloro-3-Nitrobenzene 2,3,5,6-Tetrachloro-1-nitrobenzene 2,3,5,6-Tetrachloronitrobenzene Benzene, 3-nitro-1,2,4,5-tetrachloro- 2,3,5,6-Tetrachlor-3-nitrobenzol DB 905 Teknazen Chipman 3142 Napotate Nebulin Arena Bygran Easytec Hickstor Hystore Hytec New Hystor Tecnazene Turbostore 1-Nitro-2,3,5,6-tetrachlorobenzene
Inchi:	InChI=1S/C6HCl4NO2/c7-2-1-3(8)5(10)6(4(2)9)11(12)13/h1H
InchiKey:	XQTLDFVHVHJORV-UHFFFAOYSA-N
Formula:	C6HCl4NO2
SMILES:	O=[N+]([O-])c1c(Cl)c(Cl)cc(Cl)c1Cl
Mol. weight [g/mol]:	260.89
CAS:	117-18-0

Physical Properties

Property code	Value	Unit	Source
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gf	61.36		kJ/mol	Joback Method
hf	-50.24		kJ/mol	Joback Method
hfus	31.93		kJ/mol	Joback Method
hsub	91.30 ± 2.50		kJ/mol	NIST Webbook
hvap	68.00		kJ/mol	Joback Method
log10ws	-4.86			Crippen Method
logp	4.208			Crippen Method
mcvol	138.020		ml/mol	McGowan Method
pc	3633.35		kPa	Joback Method
rinpol	1594.00			NIST Webbook
tb	577.20		K	NIST Webbook
tc	956.14		K	Joback Method
tf	373.55 ± 0.20		K	NIST Webbook
vc	0.541		m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	248.02	J/mol×K	684.84	Joback Method
cpg	253.77	J/mol×K	730.06	Joback Method
cpg	258.97	J/mol×K	775.27	Joback Method
cpg	263.65	J/mol×K	820.49	Joback Method
cpg	267.82	J/mol×K	865.71	Joback Method
cpg	271.52	J/mol×K	910.92	Joback Method
cpg	274.77	J/mol×K	956.14	Joback Method
hfust	19.46	kJ/mol	373.30	NIST Webbook
hfust	19.46	kJ/mol	373.30	NIST Webbook

Sources

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>

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C117180&Units=SI>

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
hfust:	Enthalpy of fusion at a given temperature
hsub:	Enthalpy of sublimation at standard conditions
h vap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m cvol:	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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