Benzenamine, 2,3,4,5-tetrachloro-

Other names: Aniline, 2,3,4,5-tetrachloro-
2,3,4,5-Tetrachloroaniline
Inchi: InChI=1S/C6H3Cl4N/c7-2-1-3(11)5(9)6(10)4(2)8/h1H,11H2
InchiKey: GBKZRUCVLTWAML-UHFFFAOYSA-N
Formula: C6H3Cl4N
SMILES: Nc1cc(Cl)c(Cl)c(Cl)c1Cl
Mol. weight [g/mol]: 230.91
CAS: 634-83-3

Physical Properties

Property code	Value	Unit	Source
gf	92.26	kJ/mol	Joback Method
hf	-5.69	kJ/mol	Joback Method
hfus	25.77	kJ/mol	Joback Method
hvap	62.06	kJ/mol	Joback Method
log10ws	-3.85		Crippen Method
logp	3.882		Crippen Method
mcvol	130.580	ml/mol	McGowan Method
pc	3838.78	kPa	Joback Method
tb	605.53	K	Joback Method
tc	860.65	K	Joback Method
tf	436.82	K	Joback Method
vc	0.488	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	225.74	J/mol×K	605.53	Joback Method
cpg	231.95	J/mol×K	648.05	Joback Method
cpg	237.70	J/mol×K	690.57	Joback Method
cpg	243.02	J/mol×K	733.09	Joback Method
cpg	247.90	J/mol×K	775.61	Joback Method
cpg	252.38	J/mol×K	818.13	Joback Method
cpg	256.46	J/mol×K	860.65	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C634833&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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