

Benzene, (1,3,3,3-tetrachloropropyl)-

Other names:	(1,3,3,3-tetrachloropropyl)benzene
Inchi:	InChI=1S/C9H8Cl4/c10-8(6-9(11,12)13)7-4-2-1-3-5-7/h1-5,8H,6H2
InchiKey:	JJRCOEWDFJHOFK-UHFFFAOYSA-N
Formula:	C9H8Cl4
SMILES:	C1C(CC(Cl)(Cl)Cl)c1ccccc1
Mol. weight [g/mol]:	257.97
CAS:	23691-27-2

Physical Properties

Property code	Value	Unit	Source
gf	89.99	kJ/mol	Joback Method
hf	-69.55	kJ/mol	Joback Method
hfus	18.96	kJ/mol	Joback Method
hvap	53.76	kJ/mol	Joback Method
log10ws	-4.87		Crippen Method
logp	4.727		Crippen Method
mcvol	162.870	ml/mol	McGowan Method
pc	2853.57	kPa	Joback Method
rinpol	1547.00		NIST Webbook
rinpol	1547.00		NIST Webbook
rinpol	1547.00		NIST Webbook
tb	578.05	K	Joback Method
tc	826.94	K	Joback Method
tf	324.71	K	Joback Method
vc	0.611	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	321.27	J/molxK	578.05	Joback Method
cpg	369.54	J/molxK	785.46	Joback Method
cpg	361.76	J/molxK	743.98	Joback Method
cpg	353.13	J/molxK	702.50	Joback Method
cpg	343.58	J/molxK	661.01	Joback Method

cpg	332.99	J/mol×K	619.53	Joback Method
cpg	376.59	J/mol×K	826.94	Joback Method
dvisc	0.0002075	Paxs	578.05	Joback Method
dvisc	0.0002784	Paxs	535.83	Joback Method
dvisc	0.0003927	Paxs	493.60	Joback Method
dvisc	0.0005908	Paxs	451.38	Joback Method
dvisc	0.0009670	Paxs	409.16	Joback Method
dvisc	0.0017726	Paxs	366.93	Joback Method
dvisc	0.0038043	Paxs	324.71	Joback Method

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=C23691272&Units=SI

Legend

cpg:	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
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
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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