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

Other names: 2,3,5,6-Tetrachloro ethylbenzene
Inchi: InChI=1S/C8H6Cl4/c1-2-4-7(11)5(9)3-6(10)8(4)12/h3H,2H2,1H3
InchiKey: VMZVZBOKUJLCKZ-UHFFFAOYSA-N
Formula: C8H6Cl4
SMILES: CCc1c(Cl)c(Cl)cc(Cl)c1Cl
Mol. weight [g/mol]: 243.94

Physical Properties

Property code	Value	Unit	Source
gf	42.65	kJ/mol	Joback Method
hf	-80.76	kJ/mol	Joback Method
hfus	25.75	kJ/mol	Joback Method
hvap	55.87	kJ/mol	Joback Method
log10ws	-5.01		Crippen Method
logp	4.863		Crippen Method
mcvol	148.780	ml/mol	McGowan Method
pc	2881.21	kPa	Joback Method
rinpol	1503.00		NIST Webbook
rinpol	1523.00		NIST Webbook
ripol	2078.00		NIST Webbook
ripol	2117.00		NIST Webbook
tb	578.76	K	Joback Method
tc	815.90	K	Joback Method
tf	376.10	K	Joback Method
vc	0.572	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	268.01	J/mol×K	578.76	Joback Method
cpg	305.72	J/mol×K	776.37	Joback Method
cpg	299.17	J/mol×K	736.85	Joback Method
cpg	292.15	J/mol×K	697.33	Joback Method
cpg	284.62	J/mol×K	657.81	Joback Method

cpg	276.58	J/mol×K	618.28	Joback Method
cpg	311.79	J/mol×K	815.90	Joback Method
dvisc	0.0002496	Pa×s	578.76	Joback Method
dvisc	0.0002955	Pa×s	544.98	Joback Method
dvisc	0.0003578	Pa×s	511.21	Joback Method
dvisc	0.0004451	Pa×s	477.43	Joback Method
dvisc	0.0005724	Pa×s	443.65	Joback Method
dvisc	0.0007673	Pa×s	409.88	Joback Method
dvisc	0.0010841	Pa×s	376.10	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=R13339&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
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
ripol: Polar retention indices
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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