Ethylene, bromo, trichloro

Inchi: InChI=1S/C2BrCl3/c3-1(4)2(5)6
InchiKey: BKNZCUVCWRQARP-UHFFFAOYSA-N
Formula: C2BrCl3
SMILES: ClC(Cl)=C(Cl)Br
Mol. weight [g/mol]: 210.28

Physical Properties

Property code	Value	Unit	Source
gf	7.61	kJ/mol	Joback Method
hf	-7.86	kJ/mol	Joback Method
hfus	16.39	kJ/mol	Joback Method
hvap	39.75	kJ/mol	Joback Method
log10ws	-3.38		Crippen Method
logp	3.224		Crippen Method
mcvol	88.960	ml/mol	McGowan Method
pc	5175.72	kPa	Joback Method
rinpol	884.00		NIST Webbook
rinpol	884.00		NIST Webbook
tb	427.53	K	Joback Method
tc	662.67	K	Joback Method
tf	228.86	K	Joback Method
vc	0.339	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	104.56	J/mol×K	427.53	Joback Method
cpg	107.43	J/mol×K	466.72	Joback Method
cpg	109.91	J/mol×K	505.91	Joback Method
cpg	112.02	J/mol×K	545.10	Joback Method
cpg	113.82	J/mol×K	584.29	Joback Method
cpg	115.35	J/mol×K	623.48	Joback Method
cpg	116.66	J/mol×K	662.67	Joback Method

Sources

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=R596606&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume