1,2-Cyclobutane dicarbonyl chloride, trans-

Inchi: InChI=1S/C6H6Cl2O2/c7-5(9)3-1-2-4(3)6(8)10/h3-4H,1-2H2
InchiKey: UKHMRFDNOROHOX-UHFFFAOYSA-N
Formula: C6H6Cl2O2
SMILES: O=C(Cl)C1CCC1C(=O)Cl
Mol. weight [g/mol]: 181.02

Physical Properties

Property code	Value	Unit	Source
gf	-241.12	kJ/mol	Joback Method
hf	-377.51	kJ/mol	Joback Method
hfus	19.99	kJ/mol	Joback Method
hvap	50.99	kJ/mol	Joback Method
log10ws	-1.60		Crippen Method
logp	1.543		Crippen Method
mcvol	112.160	ml/mol	McGowan Method
pc	3810.39	kPa	Joback Method
tb	525.62	K	Joback Method
tc	750.40	K	Joback Method
tf	327.26	K	Joback Method
vc	0.429	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	225.63	J/mol×K	525.62	Joback Method
cpg	235.90	J/mol×K	563.08	Joback Method
cpg	245.47	J/mol×K	600.55	Joback Method
cpg	254.35	J/mol×K	638.01	Joback Method
cpg	262.59	J/mol×K	675.47	Joback Method
cpg	270.21	J/mol×K	712.93	Joback Method
cpg	277.25	J/mol×K	750.40	Joback Method
dvisc	0.0027947	Pa×s	327.26	Joback Method
dvisc	0.0020187	Pa×s	360.32	Joback Method
dvisc	0.0015401	Pa×s	393.38	Joback Method

dvisc	0.0012253	Pa×s	426.44	Joback Method
dvisc	0.0010074	Pa×s	459.50	Joback Method
dvisc	0.0008504	Pa×s	492.56	Joback Method
dvisc	0.0007333	Pa×s	525.62	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=B6006697&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
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume