1,2-Cyclohexanedicarboxylic acid, di(2-chlorophenyl) ester

Inchi: InChI=1S/C20H18Cl2O4/c21-15-9-3-5-11-17(15)25-19(23)13-7-1-2-8-14(13)20(24)26-18
InchiKey: SVGFMEZTSLHGEE-UHFFFAOYSA-N
Formula: C20H18Cl2O4
SMILES: O=C(Oc1ccccc1Cl)C1CCCCC1C(=O)Oc1ccccc1Cl
Mol. weight [g/mol]: 393.26

Physical Properties

Property code	Value	Unit	Source
gf	-151.88	kJ/mol	Joback Method
hf	-493.11	kJ/mol	Joback Method
hfus	41.73	kJ/mol	Joback Method
hvap	93.19	kJ/mol	Joback Method
log10ws	-6.20		Crippen Method
logp	5.311		Crippen Method
mcvol	273.640	ml/mol	McGowan Method
pc	1864.33	kPa	Joback Method
rinpol	2939.00		NIST Webbook
rinpol	2939.00		NIST Webbook
tb	962.64	K	Joback Method
tc	1219.03	K	Joback Method
tf	600.34	K	Joback Method
vc	1.018	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	821.14	J/mol×K	962.64	Joback Method
cpg	861.09	J/mol×K	1176.29	Joback Method
cpg	856.56	J/mol×K	1133.56	Joback Method
cpg	850.34	J/mol×K	1090.83	Joback Method
cpg	842.40	J/mol×K	1048.10	Joback Method
cpg	832.68	J/mol×K	1005.37	Joback Method
cpg	863.99	J/mol×K	1219.03	Joback Method
dvisc	0.0000582	Pa×s	962.64	Joback Method

dvisc	0.0000723	Pa×s	902.26	Joback Method
dvisc	0.0000926	Pa×s	841.87	Joback Method
dvisc	0.0001233	Pa×s	781.49	Joback Method
dvisc	0.0001721	Pa×s	721.11	Joback Method
dvisc	0.0002553	Pa×s	660.72	Joback Method
dvisc	0.0004102	Pa×s	600.34	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U339592&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume