

1,2-Cyclohexanedicarboxylic acid, octyl 2,4,6-trichlorophenyl ester

Inchi:	InChI=1S/C22H29Cl3O4/c1-2-3-4-5-6-9-12-28-21(26)16-10-7-8-11-17(16)22(27)29-20-18
InchiKey:	ODBKFGMQBCKILK-UHFFFAOYSA-N
Formula:	C22H29Cl3O4
SMILES:	CCCCCCCCOC(=O)C1CCCCC1C(=O)Oc1c(Cl)cc(Cl)cc1Cl
Mol. weight [g/mol]:	463.82

Physical Properties

Property code	Value	Unit	Source
gf	-269.01	kJ/mol	Joback Method
hf	-798.13	kJ/mol	Joback Method
hfus	56.68	kJ/mol	Joback Method
hvap	100.41	kJ/mol	Joback Method
log10ws	-7.97		Crippen Method
logp	7.262		Crippen Method
mvol	337.820	ml/mol	McGowan Method
pc	1196.48	kPa	Joback Method
rinpol	3087.00		NIST Webbook
rinpol	3087.00		NIST Webbook
tb	1024.13	K	Joback Method
tc	1258.83	K	Joback Method
tf	638.90	K	Joback Method
vc	1.286	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1066.50	J/molxK	1024.13	Joback Method
cpg	1078.43	J/molxK	1063.25	Joback Method
cpg	1088.62	J/molxK	1102.36	Joback Method
cpg	1097.09	J/molxK	1141.48	Joback Method
cpg	1103.89	J/molxK	1180.60	Joback Method
cpg	1109.03	J/molxK	1219.71	Joback Method
cpg	1112.55	J/molxK	1258.83	Joback Method
dvisc	0.0002664	Paxs	638.90	Joback Method

dvisc	0.0001641	Paxs	703.11	Joback Method
dvisc	0.0001097	Paxs	767.31	Joback Method
dvisc	0.0000780	Paxs	831.52	Joback Method
dvisc	0.0000582	Paxs	895.72	Joback Method
dvisc	0.0000452	Paxs	959.93	Joback Method
dvisc	0.0000362	Paxs	1024.13	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=U339813&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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