

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

Inchi:	InChI=1S/C20H25Cl3O4/c1-12(2)6-5-9-26-19(24)14-7-3-4-8-15(14)20(25)27-18-16(22)10
InchiKey:	JODHDCLIOXBAQB-UHFFFAOYSA-N
Formula:	C20H25Cl3O4
SMILES:	CC(C)CCCOC(=O)C1CCCCC1C(=O)Oc1c(Cl)cc(Cl)cc1Cl
Mol. weight [g/mol]:	435.77

Physical Properties

Property code	Value	Unit	Source
gf	-288.29	kJ/mol	Joback Method
hf	-762.13	kJ/mol	Joback Method
hfus	47.98	kJ/mol	Joback Method
hvap	95.58	kJ/mol	Joback Method
log10ws	-6.90		Crippen Method
logp	6.338		Crippen Method
mvol	309.640	ml/mol	McGowan Method
pc	1380.93	kPa	Joback Method
rinpol	2821.00		NIST Webbook
rinpol	2821.00		NIST Webbook
tb	977.93	K	Joback Method
tc	1212.74	K	Joback Method
tf	601.36	K	Joback Method
vc	1.169	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	948.52	J/molxK	977.93	Joback Method
cpg	960.75	J/molxK	1017.06	Joback Method
cpg	971.29	J/molxK	1056.20	Joback Method
cpg	980.18	J/molxK	1095.33	Joback Method
cpg	987.43	J/molxK	1134.47	Joback Method
cpg	993.06	J/molxK	1173.60	Joback Method
cpg	997.10	J/molxK	1212.74	Joback Method
dvisc	0.0003533	Paxs	601.36	Joback Method

dvisc	0.0002124	Paxs	664.12	Joback Method
dvisc	0.0001394	Paxs	726.88	Joback Method
dvisc	0.0000979	Paxs	789.64	Joback Method
dvisc	0.0000724	Paxs	852.41	Joback Method
dvisc	0.0000558	Paxs	915.17	Joback Method
dvisc	0.0000444	Paxs	977.93	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U339810&Units=SI
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

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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