

cis-Cyclohex-4-en-1,2-dicarboxylic acid, 4-chloro-3-methylphenyl decyl ester

Inchi:	InChI=1S/C25H35ClO4/c1-3-4-5-6-7-8-9-12-17-29-24(27)21-13-10-11-14-22(21)25(28)30
InchiKey:	IOHLKWVNAHDGLC-UHFFFAOYSA-N
Formula:	C25H35ClO4
SMILES:	CCCCCCCCCOC(=O)C1CC=CCC1C(=O)Oc1ccc(Cl)c(C)c1
Mol. weight [g/mol]:	435.00

Physical Properties

Property code	Value	Unit	Source
gf	-180.30	kJ/mol	Joback Method
hf	-759.32	kJ/mol	Joback Method
hfus	57.67	kJ/mol	Joback Method
hvap	97.95	kJ/mol	Joback Method
log10ws	-7.77		Crippen Method
logp	6.820		Crippen Method
mvol	351.310	ml/mol	McGowan Method
pc	1072.17	kPa	Joback Method
rinpol	3115.00		NIST Webbook
rinpol	3115.00		NIST Webbook
tb	1012.09	K	Joback Method
tc	1241.03	K	Joback Method
tf	601.11	K	Joback Method
vc	1.343	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1173.19	J/molxK	1012.09	Joback Method
cpg	1228.44	J/molxK	1202.87	Joback Method
cpg	1220.72	J/molxK	1164.72	Joback Method
cpg	1211.38	J/molxK	1126.56	Joback Method
cpg	1200.37	J/molxK	1088.40	Joback Method
cpg	1187.66	J/molxK	1050.25	Joback Method
cpg	1234.58	J/molxK	1241.03	Joback Method
dvisc	0.0000348	Paxs	1012.09	Joback Method

dvisc	0.0000441	Paxs	943.59	Joback Method
dvisc	0.0000579	Paxs	875.10	Joback Method
dvisc	0.0000796	Paxs	806.60	Joback Method
dvisc	0.0001162	Paxs	738.10	Joback Method
dvisc	0.0001831	Paxs	669.61	Joback Method
dvisc	0.0003203	Paxs	601.11	Joback Method

Sources

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=U382655&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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