

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

Inchi:	InChI=1S/C21H27ClO4/c1-14(2)7-6-12-25-20(23)17-8-4-5-9-18(17)21(24)26-16-10-11-13
InchiKey:	BQKFMTAKHDLQLJ-UHFFFAOYSA-N
Formula:	C21H27ClO4
SMILES:	<chem>Cc1cc(OC(=O)C2CC=CCC2C(=O)OCCCC(C)C)ccc1Cl</chem>
Mol. weight [g/mol]:	378.89

Physical Properties

Property code	Value	Unit	Source
gf	-216.42	kJ/mol	Joback Method
hf	-682.04	kJ/mol	Joback Method
hfus	43.78	kJ/mol	Joback Method
hvap	88.66	kJ/mol	Joback Method
log10ws	-5.86		Crippen Method
logp	5.116		Crippen Method
mvol	294.950	ml/mol	McGowan Method
pc	1411.18	kPa	Joback Method
rinpol	2670.00		NIST Webbook
rinpol	2670.00		NIST Webbook
tb	920.13	K	Joback Method
tc	1146.27	K	Joback Method
tf	541.03	K	Joback Method
vc	1.113	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	932.69	J/molxK	920.13	Joback Method
cpg	947.60	J/molxK	957.82	Joback Method
cpg	960.93	J/molxK	995.51	Joback Method
cpg	972.69	J/molxK	1033.20	Joback Method
cpg	982.91	J/molxK	1070.89	Joback Method
cpg	991.61	J/molxK	1108.58	Joback Method
cpg	998.83	J/molxK	1146.27	Joback Method
dvisc	0.0005303	Paxs	541.03	Joback Method

dvisc	0.0003001	Paxs	604.21	Joback Method
dvisc	0.0001892	Paxs	667.40	Joback Method
dvisc	0.0001292	Paxs	730.58	Joback Method
dvisc	0.0000937	Paxs	793.76	Joback Method
dvisc	0.0000713	Paxs	856.95	Joback Method
dvisc	0.0000563	Paxs	920.13	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=U382650&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

Latest version available from:

<https://www.chemeo.com/cid/96-258-0/cis-Cyclohex-4-en-1-2-dicarboxylic-acid-4-chloro-3-methylphenyl-isoheptyl-ester>

Generated by Cheméo on 2024-05-11 06:23:30.303284526 +0000 UTC m=+17697859.223861841.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.