

4-(4-Chloro-2-methylphenoxy)butyric acid, tridecyl ester

Inchi:	InChI=1S/C24H39ClO3/c1-3-4-5-6-7-8-9-10-11-12-13-18-28-24(26)15-14-19-27-23-17-16
InchiKey:	YNFWZKLRUMOIHX-UHFFFAOYSA-N
Formula:	C24H39ClO3
SMILES:	CCCCCCCCCCCCOC(=O)CCCOc1ccc(Cl)cc1C
Mol. weight [g/mol]:	411.02

Physical Properties

Property code	Value	Unit	Source
gf	-106.50	kJ/mol	Joback Method
hf	-717.86	kJ/mol	Joback Method
hfus	59.35	kJ/mol	Joback Method
hvap	88.57	kJ/mol	Joback Method
log10ws	-8.31		Crippen Method
logp	7.662		Crippen Method
mvol	350.810	ml/mol	McGowan Method
pc	959.10	kPa	Joback Method
rinpol	3527.00		NIST Webbook
rinpol	3527.00		NIST Webbook
tb	921.30	K	Joback Method
tc	1128.55	K	Joback Method
tf	536.01	K	Joback Method
vc	1.363	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1128.98	J/molxK	921.30	Joback Method
cpg	1204.16	J/molxK	1094.01	Joback Method
cpg	1191.64	J/molxK	1059.47	Joback Method
cpg	1177.89	J/molxK	1024.93	Joback Method
cpg	1162.89	J/molxK	990.38	Joback Method
cpg	1146.60	J/molxK	955.84	Joback Method
cpg	1215.50	J/molxK	1128.55	Joback Method
dvisc	0.0000281	Paxs	921.30	Joback Method

dvisc	0.0000364	Paxs	857.08	Joback Method
dvisc	0.0000490	Paxs	792.87	Joback Method
dvisc	0.0000697	Paxs	728.65	Joback Method
dvisc	0.0001060	Paxs	664.44	Joback Method
dvisc	0.0001764	Paxs	600.23	Joback Method
dvisc	0.0003316	Paxs	536.01	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U415089&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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