

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

Inchi:	InChI=1S/C22H35ClO3/c1-3-4-5-6-7-8-9-10-11-16-26-22(24)13-12-17-25-21-15-14-20(2)
InchiKey:	ZKACEPCRHZMOBP-UHFFFAOYSA-N
Formula:	C22H35ClO3
SMILES:	CCCCCCCCCOC(=O)CCCOc1ccc(Cl)cc1C
Mol. weight [g/mol]:	382.96

Physical Properties

Property code	Value	Unit	Source
gf	-123.34	kJ/mol	Joback Method
hf	-676.58	kJ/mol	Joback Method
hfus	54.17	kJ/mol	Joback Method
hvap	84.12	kJ/mol	Joback Method
log10ws	-7.47		Crippen Method
logp	6.881		Crippen Method
mvol	322.630	ml/mol	McGowan Method
pc	1084.20	kPa	Joback Method
rinpol	3320.00		NIST Webbook
rinpol	3320.00		NIST Webbook
tb	875.54	K	Joback Method
tc	1076.49	K	Joback Method
tf	513.47	K	Joback Method
vc	1.250	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1006.43	J/molxK	875.54	Joback Method
cpg	1080.24	J/molxK	1043.00	Joback Method
cpg	1067.76	J/molxK	1009.51	Joback Method
cpg	1054.16	J/molxK	976.02	Joback Method
cpg	1039.43	J/molxK	942.52	Joback Method
cpg	1023.52	J/molxK	909.03	Joback Method
cpg	1091.64	J/molxK	1076.49	Joback Method
dvisc	0.0000376	Paxs	875.54	Joback Method

dvisc	0.0000484	Paxs	815.19	Joback Method
dvisc	0.0000648	Paxs	754.85	Joback Method
dvisc	0.0000912	Paxs	694.50	Joback Method
dvisc	0.0001371	Paxs	634.16	Joback Method
dvisc	0.0002246	Paxs	573.82	Joback Method
dvisc	0.0004130	Paxs	513.47	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U415087&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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