

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

Inchi:	InChI=1S/C20H31ClO3/c1-3-4-5-6-7-8-9-14-24-20(22)11-10-15-23-19-13-12-18(21)16-17
InchiKey:	LLQUOUYJTSRTAG-UHFFFAOYSA-N
Formula:	C20H31ClO3
SMILES:	CCCCCCCCCOC(=O)CCCOc1ccc(Cl)cc1C
Mol. weight [g/mol]:	354.91

Physical Properties

Property code	Value	Unit	Source
gf	-140.18	kJ/mol	Joback Method
hf	-635.30	kJ/mol	Joback Method
hfus	48.99	kJ/mol	Joback Method
hvap	79.66	kJ/mol	Joback Method
log10ws	-6.64		Crippen Method
logp	6.101		Crippen Method
mvol	294.450	ml/mol	McGowan Method
pc	1235.48	kPa	Joback Method
rinpol	3106.00		NIST Webbook
rinpol	3106.00		NIST Webbook
tb	829.78	K	Joback Method
tc	1027.67	K	Joback Method
tf	490.93	K	Joback Method
vc	1.139	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	886.57	J/molxK	829.78	Joback Method
cpg	903.18	J/molxK	862.76	Joback Method
cpg	918.70	J/molxK	895.74	Joback Method
cpg	933.15	J/molxK	928.73	Joback Method
cpg	946.56	J/molxK	961.71	Joback Method
cpg	958.93	J/molxK	994.69	Joback Method
cpg	970.30	J/molxK	1027.67	Joback Method
dvisc	0.0005066	Paxs	490.93	Joback Method

dvisc	0.0002821	Paxs	547.40	Joback Method
dvisc	0.0001753	Paxs	603.88	Joback Method
dvisc	0.0001181	Paxs	660.36	Joback Method
dvisc	0.0000847	Paxs	716.83	Joback Method
dvisc	0.0000638	Paxs	773.31	Joback Method
dvisc	0.0000499	Paxs	829.78	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=U415085&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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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