

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

Inchi:	InChI=1S/C18H27ClO3/c1-3-4-5-6-7-12-22-18(20)9-8-13-21-17-11-10-16(19)14-15(17)2
InchiKey:	ACRHGCFXTOOYHZ-UHFFFAOYSA-N
Formula:	C18H27ClO3
SMILES:	CCCCCCCOC(=O)CCCOc1ccc(Cl)cc1C
Mol. weight [g/mol]:	326.86

Physical Properties

Property code	Value	Unit	Source
gf	-157.02	kJ/mol	Joback Method
hf	-594.02	kJ/mol	Joback Method
hfus	43.81	kJ/mol	Joback Method
hvap	75.21	kJ/mol	Joback Method
log10ws	-5.80		Crippen Method
logp	5.321		Crippen Method
mcvol	266.270	ml/mol	McGowan Method
pc	1420.78	kPa	Joback Method
rinqol	2895.00		NIST Webbook
tb	784.02	K	Joback Method
tc	981.63	K	Joback Method
tf	468.39	K	Joback Method
vc	1.026	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	769.94	J/molxK	784.02	Joback Method
cpg	840.56	J/molxK	948.70	Joback Method
cpg	828.39	J/molxK	915.76	Joback Method
cpg	815.25	J/molxK	882.83	Joback Method
cpg	801.14	J/molxK	849.89	Joback Method
cpg	786.04	J/molxK	816.96	Joback Method
cpg	851.79	J/molxK	981.63	Joback Method
dvisc	0.0000655	Paxs	784.02	Joback Method
dvisc	0.0000831	Paxs	731.41	Joback Method

dvisc	0.0001094	Paxs	678.81	Joback Method
dvisc	0.0001509	Paxs	626.20	Joback Method
dvisc	0.0002208	Paxs	573.60	Joback Method
dvisc	0.0003488	Paxs	521.00	Joback Method
dvisc	0.0006106	Paxs	468.39	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U415083&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

Latest version available from:

<https://www.chemeo.com/cid/99-483-7/4-4-Chloro-2-methylphenoxy-butyric-acid-heptyl-ester.pdf>

Generated by Cheméo on 2024-04-27 15:50:44.488461022 +0000 UTC m=+16522293.409038342.

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