Chlorfenprop-methyl

Other names: 2-Chloro-3-(4-chlorophenyl)-methylpropionate
2-Chloro-3-(4-chlorophenyl)propionic acid methyl ester
3-(4-Chlorphenyl)-2-chlorpropionsaeuremethylester
B 57-10
BAY 70533
Bayer 70533
Benzenepropanoic acid, «alpha»,4-dichloro-, methyl ester
Benzenepropanoic acid, Â«alphaÂ»,4-dichloro-, methyl ester
Bidisin
Chlorofenprop-methyl
Chlorphenprop-methyl
Hydrocinnamic acid, p,«alpha»-dichloro-, methyl ester
Hydrocinnamic acid, p,Â«alphaÂ»-dichloro-, methyl ester
Methachlorphenprop
Methyl 2-chloro-3-(4-chlorophenyl)propionate
Methyl 2-chloro-3-(p-chlorophenyl)propionate
Methyl 3-(4-chlorophenyl)-2-chloropropionate
Methyl «alpha»,4-dichlorophenylpropanoate
Methyl «alpha»-chloro-«beta»-(p-chlorophenyl)propionate
Methyl Â«alphaÂ»,4-dichlorophenylpropanoate
Methyl Â«alphaÂ»-chloro-Â«betaÂ»-(p-chlorophenyl)propionate
Methylester kyseliny 2-chlor-3-p-chlorfenylpropionove
Propionic acid, 2-chloro-3-(4-chlorophenyl)-, methyl ester
W5769
methyl 2-chloro-3-(4-chlorophenyl)propanoate

Inchi: InChI=1S/C10H10Cl2O2/c1-14-10(13)9(12)6-7-2-4-8(11)5-3-7/h2-5,9H,6H2,1H3

InchiKey: YJKIALIXRCSISK-UHFFFAOYSA-N

Formula: C10H10Cl2O2

SMILES: COC(=O)C(Cl)Cc1ccc(Cl)cc1

Mol. weight [g/mol]: 233.09

CAS: 14437-17-3

Physical Properties

Property code	Value	Unit	Source
gf	-124.12	kJ/mol	Joback Method
hf	-306.23	kJ/mol	Joback Method

hfus	22.97	kJ/mol	Joback Method
hvap	58.33	kJ/mol	Joback Method
log10ws	-3.77		Aqueous Solubility Prediction Method
logp	2.663		Crippen Method
mcvol	159.920	ml/mol	McGowan Method
pc	2823.32	kPa	Joback Method
tb	610.57	K	Joback Method
tc	837.26	K	Joback Method
tf	358.40	K	Joback Method
vc	0.604	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	350.75	J/mol×K	610.57	Joback Method
cpg	402.64	J/mol×K	799.48	Joback Method
cpg	393.77	J/mol×K	761.70	Joback Method
cpg	384.17	J/mol×K	723.91	Joback Method
cpg	373.81	J/mol×K	686.13	Joback Method
cpg	362.68	J/mol×K	648.35	Joback Method
cpg	410.80	J/mol×K	837.26	Joback Method
dvisc	0.0001875	Pa×s	610.57	Joback Method
dvisc	0.0002383	Pa×s	568.54	Joback Method
dvisc	0.0003149	Pa×s	526.51	Joback Method
dvisc	0.0004365	Pa×s	484.49	Joback Method
dvisc	0.0006439	Pa×s	442.46	Joback Method
dvisc	0.0010307	Pa×s	400.43	Joback Method
dvisc	0.0018422	Pa×s	358.40	Joback Method

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method

Aqueous Solubility Prediction Method: http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C14437173&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume