

Mecoprop

Other names:

Propanoic acid, 2-(4-chloro-2-methylphenoxy)-
Propionic acid, 2-[(4-chloro-o-tolyl)oxy]-
«alpha»-(2-Methyl-4-chlorophenoxy)propionic acid
Anicon B
2-(p-Chloro-o-tolyloxy)propionic acid
2-(2-Methyl-4-chlorophenoxy)propanoic acid
2-(2-Methyl-4-chlorophenoxy)propionic acid
2-(2'-Methyl-4'-chlorophenoxy)propionic acid
2-(4-Chloro-2-methylphenoxy)propionic acid
2M4KhP
2-(4-Chloro-o-tolyloxy)propionic acid
Acide 2-(4-chloro-2-methyl-phenoxy)propionique
Acido 2-(4-cloro-2-metil-fenossi)-propionico
Chipco turf herbicide mcpp
Compitox
CMPP
iso-Cornox
Kilprop
Liranox
Mecopar
Mecopeop
Mecoper
Mecopex
Mecoturf
Mecprop
Mepro
Methoxone
MCPP
N.B. Mecoprop
Propionic acid, 2-(2-methyl-4-chlorophenoxy)-
Propionic acid, 2-(4-chloro-2-methylphenoxy)
Rankotex
Runcatex
RD 4593
Vi-Par
Vi-Pex
2-(4-Chloor-2-methyl-fenoxy)-propionzuur
2-(4-Chlor-2-methyl-phenoxy)-propionsaeure
2-(4-Chlorophenoxy-2-methyl)propionic acid
2-MCPP

2M-4CP
 2-(4-Chloro-2-methylphenoxy)propanoic acid
 «alpha»-(4-Chloro-2-methylphenoxy)propionic acid
 FBC CMPP
 Kwas 4-chloro-2-metylofenoksypropionowy
 Kyselina 2-(4-chlor-2-methylfenoxy)propionova
 Mecomec
 2-(2-Methyl-4-chlorphenoxy)-propionsaeure
 Proponex-plus
 U 46
 U 46 KV-fluid
 Duplosan CMPP
 Duplosan new system CMPP
 Okultin MP
 (+/-)-2-(4-Chloro-2-methylphenoxy)propanoic acid
 (+/-)-2-(4-Chloro-2-methylphenoxy)propionic acid
 Isocarnox
 Mechlorprop
 Morogal

Inchi: InChI=1S/C10H11ClO3/c1-6-5-8(11)3-4-9(6)14-7(2)10(12)13/h3-5,7H,1-2H3,(H,12,13)
InchiKey: WNTGYJSOUMFZEP-UHFFFAOYSA-N
Formula: C9H11ClO3
SMILES: Cc1cc(Cl)ccc1OC(C)C(=O)O
Mol. weight [g/mol]: 202.63
CAS: 93-65-2

Physical Properties

Property code	Value	Unit	Source
gf	-258.64	kJ/mol	Joback Method
hf	-454.19	kJ/mol	Joback Method
hfus	22.47	kJ/mol	Joback Method
hvap	71.29	kJ/mol	Joback Method
log10ws	-2.80		Crippen Method
logp	2.500		Crippen Method
mcvol	153.550	ml/mol	McGowan Method
pc	3199.16	kPa	Joback Method
rinpol	1740.00		NIST Webbook
rinpol	1740.00		NIST Webbook
tb	670.30	K	Joback Method
tc	877.99	K	Joback Method

tf	367.30 ± 0.20	K	NIST Webbook
tf	367.00 ± 0.20	K	NIST Webbook
vc	0.574	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	424.84	J/mol×K	877.99	Joback Method
cpg	417.64	J/mol×K	843.38	Joback Method
cpg	409.86	J/mol×K	808.76	Joback Method
cpg	401.49	J/mol×K	774.15	Joback Method
cpg	392.50	J/mol×K	739.53	Joback Method
cpg	382.90	J/mol×K	704.92	Joback Method
cpg	372.67	J/mol×K	670.30	Joback Method
dvisc	0.0016607	Paxs	401.82	Joback Method
dvisc	0.0000517	Paxs	670.30	Joback Method
dvisc	0.0000750	Paxs	625.55	Joback Method
dvisc	0.0001151	Paxs	580.81	Joback Method
dvisc	0.0001898	Paxs	536.06	Joback Method
dvisc	0.0003429	Paxs	491.31	Joback Method
dvisc	0.0006973	Paxs	446.57	Joback Method
hfust	26.43	kJ/mol	366.20	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C93652&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
hfust:	Enthalpy of fusion at a given temperature
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
rinpolar:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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