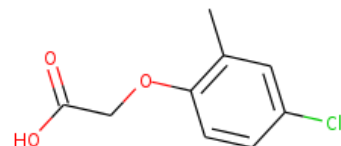


[(4-Chloro-o-tolyl)oxy]acetic acid

Other names: (2-Methyl-4-chlorophenoxy)acetic acid; (4-Chloro-2-methylphenoxy)acetic acid; (4-Chloro-o-cresoxy)acetic acid; (4-Chloro-o-toloxo)acetic acid; 2,4-MCPA; 2-(4-Chloro-2-methylphenoxy)acetic acid; 2-Methyl-4-chlorophenoxyessigsaeure; 2M-4C; 2M-4Ch; 2M-4Kh; 4K-2M; Acetic acid, (4-chloro-2-methylphenoxy)-; Acetic acid, (4-chloro-o-toloxo)-; Acetic acid, 2-(4-chloro-2-methylphenoxy)-; Acetic acid, [(4-chloro-o-tolyl)oxy]-; Acme MCPA amine 4; Agricorn 500 II; Agritox; Agritox 50; Agroxon; Agroxone; Albar-M; Anicon M; Anicon kombi; Atlas MCPA; B-Selektion M; BH MCPA; Bordermaster; Brominal M & plus; Campbell's MCPA 25, 50; Cekherbex; Chiptox; Chwastox 30; Cornox-M; Dicopur-M; Dicotex; Dikotes; Dikotex; Dow MCP amine weed killer; Emcepan; Empal; Hedapur M 52; Hedarex M; Hedonal M; Herbicide M; Hormoneste; Hormotuho; Hornotuho; Kilsem; Kilsem4k-2m; Krezone; Kwas 4-chloro-2-metylofenoksyoctowy; Kyselina 4-chlor-2-methylfenoksyoctova; Legumex DB; Leuna M; Leyspray; Linormone; M 40; MCP; MCPA; Mecaphar; Mephanac; Metaxon; Methoxone; Methyl chlorophenoxy acetic acid; Netazol; Okultin M; Phenoxyline 50; Phenoxyline plus; Phenoxyline super; Raphone; Razol dock killer; Rhomenc; Rhomene; Rhonox; Selektion M; Seppic MMD; Shamrox; Soviet technical herbicide 2M-4C; Trasan; U 46 M-FLUID; Ustinex; Vacate; Verdone; Vesakontuho MCPA; Weed-rhap; Weedar MCPA; Weedar mcpa concentrate; Weedone mcpa ester; Zelan.



InChI: InChI=1S/C9H9ClO3/c1-6-4-7(10)2-3-8(6)13-5-9(11)12/h2-4H,5H2,1H3,(H,11,12)

InChI Key: WHKUVVPPKQRRBV-UHFFFAOYSA-N

Formula: C9H9ClO3

SMILES: Cc1cc(Cl)ccc1OCC(=O)O

Molecular Weight: 200.62

CAS: 94-74-6

Physical Properties

Property	Value	Unit	Source
$\Delta_f G^\circ$	-264.62	kJ/mol	Joback Method
$\Delta_f H^\circ_{\text{gas}}$	-428.27	kJ/mol	Joback Method
$\Delta_{\text{fus}} H^\circ$	23.40	kJ/mol	Joback Method
$\Delta_{\text{vap}} H^\circ$	69.45	kJ/mol	Joback Method
$\log P_{\text{oct/wat}}$	2.11		Crippen Method
P_c	3543.08	kPa	Joback Method
T_{boil}	647.86	K	Joback Method

Property	Value	Unit	Source
T_c	854.75	K	Joback Method
T_{fus}	393.44 ± 0.20	K	NIST Webbook
T_{fus}	392.70 ± 0.20	K	NIST Webbook
V_c	0.52	m ³ /kg-mol	Joback Method

Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,gas}$	323.99	J/mol×K	647.86	Joback Method
η	0.00	Paxs	647.86	Joback Method
$\Delta_{fus} H$	29.98	kJ/mol	392.9	NIST Webbook

Sources

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

NIST Webbook: [http://webbook.nist.gov/cgi/inchi/InChI=1S/C9H9ClO3/c1-6-4-7\(10\)2-3-8\(6\)13-5-9\(11\)12/h2-4H,5H2,1H3,\(H,11,12\)](http://webbook.nist.gov/cgi/inchi/InChI=1S/C9H9ClO3/c1-6-4-7(10)2-3-8(6)13-5-9(11)12/h2-4H,5H2,1H3,(H,11,12))

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Legend

$C_{p,gas}$: Ideal gas heat capacity (J/mol×K).

η : Dynamic viscosity (Paxs).

$\Delta_f G^\circ$: Standard Gibbs free energy of formation (kJ/mol).

$\Delta_f H^\circ_{gas}$: Enthalpy of formation at standard conditions (kJ/mol).

$\Delta_{fus} H^\circ$: Enthalpy of fusion at standard conditions (kJ/mol).

$\Delta_{fus} H$: Enthalpy of fusion at a given temperature (kJ/mol).

$\Delta_{vap} H^\circ$: Enthalpy of vaporization at standard conditions (kJ/mol).

$\log P_{oct/wat}$: Octanol/Water partition coefficient .

P_c : Critical Pressure (kPa).

T_{boil} : Normal Boiling Point Temperature (K).

T_c : Critical Temperature (K).

T_{fus} : Normal melting (fusion) point (K).

V_c : Critical Volume (m³/kg-mol).

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