

# Chlorpropham

**Other names:** (3-Chlorophenyl)carbamic acid, 1-methylethyl ester  
3-Chlorocarbanilic acid, isopropyl ester  
Beet-Kleen  
Bygran  
CI-IPC  
CIPC  
Carbamic acid, (3-chlorophenyl)-, 1-methylethyl ester  
Carbamic acid, N-(3-chlorophenyl)-, 1-methylethyl ester  
Carbanilic acid, m-chloro-, isopropyl ester  
Chlor IFC  
Chlor IFK  
ChlorIPC  
Chloro-IFK  
Chloro-IPC  
Chloropham  
Chloropropham  
Chloroprophame  
CI-IFK  
ENT 18,060  
Elbanil  
Fasco WY-HOE  
Furloe  
Furloe 3 EC  
Isopropyl 3-chlorocarbanilate  
Isopropyl 3-chlorophenylcarbamate  
Isopropyl N-(3-chlorophenyl)carbamate  
Isopropyl N-(m-chlorophenyl)carbamate  
Isopropyl N-chlorophenylcarbamate  
Isopropyl chlorocarbanilate  
Isopropyl m-chlorocarbanilate  
Jack Wilson chloro 51(oil)  
Keim-Stop  
Liro CIPC  
Metoxon  
Mirvale  
N-(3-Chloro-fenyl)-isopropyl carbamaat  
N-(3-Chlor-phenyl)-isopropyl-carbamat  
N-(3-Chloro phenyl)carbamate d'isopropyle  
N-(3-Chlorophenyl)carbamic acid, isopropyl ester  
N-(3-Chlorophenyl)isopropyl carbamate

N-(3-Chloro-fenil)-isopropil-carbammato

Nexoval

Prevenol 56

Preventol

Preventol 56

Preweed

Sprout Nip

Spud-Nic

Spud-Nie

Stopgerme-S

Taterpex

Triherbicide CIPC

Y 3

m-Chlorocarbanilic acid isopropyl ester

propan-2-yl N-(3-chlorophenyl)carbamate

**Inchi:** InChI=1S/C10H12ClNO2/c1-7(2)14-10(13)12-9-5-3-4-8(11)6-9/h3-7H,1-2H3,(H,12,13)  
**InchiKey:** CWJSHJJYOPWUGX-UHFFFAOYSA-N  
**Formula:** C10H12ClNO2  
**SMILES:** CC(C)OC(=O)Nc1cccc(Cl)c1  
**Mol. weight [g/mol]:** 213.66  
**CAS:** 101-21-3

## Physical Properties

Property code	Value	Unit	Source
gf	-22.80	kJ/mol	Joback Method
hf	-237.02	kJ/mol	Joback Method
hfus	23.87	kJ/mol	Joback Method
hvap	60.38	kJ/mol	Joback Method
log10ws	-3.38		Aqueous Solubility Prediction Method
log10ws	-3.38		Estimated Solubility Method
logp	3.297		Crippen Method
mcvol	157.660	ml/mol	McGowan Method
pc	2979.54	kPa	Joback Method
rinpol	1657.00		NIST Webbook
rinpol	1659.00		NIST Webbook
rinpol	1660.00		NIST Webbook
rinpol	1660.00		NIST Webbook
rinpol	1613.00		NIST Webbook

rinpol	1626.00		NIST Webbook
rinpol	1659.00		NIST Webbook
rinpol	1661.00		NIST Webbook
rinpol	1659.00		NIST Webbook
rinpol	1664.00		NIST Webbook
rinpol	1626.00		NIST Webbook
rinpol	1629.00		NIST Webbook
ripol	2643.00		NIST Webbook
tb	623.31	K	Joback Method
tc	845.22	K	Joback Method
tf	315.70 ± 0.20	K	NIST Webbook
tf	315.00 ± 0.20	K	NIST Webbook
vc	0.590	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	373.44	J/mol×K	623.31	Joback Method
cpg	386.15	J/mol×K	660.30	Joback Method
cpg	398.05	J/mol×K	697.28	Joback Method
cpg	409.13	J/mol×K	734.27	Joback Method
cpg	419.44	J/mol×K	771.25	Joback Method
cpg	428.97	J/mol×K	808.24	Joback Method
cpg	437.76	J/mol×K	845.22	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	422.20	K	0.30	NIST Webbook

## Sources

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

**Joback Method:** [https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

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

**Estimated Solubility Method:** [http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl\\_file/ci034243xsi20040112\\_053635.txt](http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt)  
**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C101213&Units=SI>

## Legend

**cpg:** Ideal gas heat capacity  
**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  
**ripol:** Non-polar retention indices  
**ripol:** Polar retention indices  
**tb:** Normal Boiling Point Temperature  
**tbrp:** Boiling point at reduced pressure  
**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

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