

Barban

Other names:

(3-Chlorophenyl)carbamic acid 4-chloro-2-butynyl ester
(4-Chloor-but-2-yn-yl)-N-(3-chloor-fenyl)-carbamaat
(4-Chlor-but-2-in-yl)-N-(3-chlor-phenyl)-carbamat
(4-Cloro-but-2-in-il)-N-(3-cloro-fenil)-carbammato
2-Butyn-1-ol, 4-chloro-, m-chlorocarbanilate
2-Butynyl 4-chloro-m-chlorocarbanilate
4-Chloro-2-Butynyl m-chlorocarbanilate
4-Chloro-2-butynyl 3-chlorocarbanilate
4-Chloro-2-butynyl N-(3-chlorophenyl)carbamate
4-Chlorobut-2-ynyl 3-chlorophenylcarbamate
4-Chlorobut-2-ynyl-m-chlorocarbanilate
4-chlorobut-2-ynyl N-(3-chlorophenyl)carbamate
A 980
Barbamate
Barbanate
Barbane
C-847
CBN
CS-847
Carbamic acid, (3-chlorophenyl)-, 4-chloro-2-butynyl ester
Carbanilic acid, m-chloro-, 4-chloro-2-butynyl ester
Carbin
Carbine
Carbyne
Carbyne (Herbicide)
Caryne
Chlorinat
Chloro-2-butynyl m-chlorocarbamate
Fisons B25
Karbin
N-(3-Chloro phenyl)carbamate de 4-chloro 2-butynyle
NSC 29168
Neoban
S 847
m-Chlorocarbanilic acid, 4-chloro-2-butynyl ester

Inchi:

InChI=1S/C11H9Cl2NO2/c12-6-1-2-7-16-11(15)14-10-5-3-4-9(13)8-10/h3-5,8H,6-7H2,(H

InchiKey:

MCOQHIEWZJUDQIC-UHFFFAOYSA-N

Formula:

C11H9Cl2NO2

SMILES:

O=C(Nc1cccc(Cl)c1)OCC#CCCl

Mol. weight [g/mol]:

258.10

Physical Properties

Property code	Value	Unit	Source
gf	178.93	kJ/mol	Joback Method
hf	4.18	kJ/mol	Joback Method
hfus	37.30	kJ/mol	Joback Method
hvap	69.53	kJ/mol	Joback Method
log10ws	-4.37		Estimated Solubility Method
log10ws	-4.37		Aqueous Solubility Prediction Method
logp	3.131		Crippen Method
mcvol	175.390	ml/mol	McGowan Method
pc	3042.32	kPa	Joback Method
rinpol	2126.00		NIST Webbook
rinpol	2126.00		NIST Webbook
tb	693.06	K	Joback Method
tc	934.38	K	Joback Method
tf	345.59 ± 0.20	K	NIST Webbook
vc	0.662	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	400.56	J/mol×K	693.06	Joback Method
cpg	411.71	J/mol×K	733.28	Joback Method
cpg	422.00	J/mol×K	773.50	Joback Method
cpg	431.46	J/mol×K	813.72	Joback Method
cpg	440.11	J/mol×K	853.94	Joback Method
cpg	447.97	J/mol×K	894.16	Joback Method
cpg	455.07	J/mol×K	934.38	Joback Method
hfust	26.91	kJ/mol	344.10	NIST Webbook
hfust	26.91	kJ/mol	344.10	NIST Webbook

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C101279&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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