

Methocarbamol

Other names:

- 1,2-Propanediol, 3-(2-methoxyphenoxy)-, 1-carbamate
- 1,2-Propanediol, 3-(o-methoxyphenoxy)-, 1-carbamate
- 2-Hydroxy-3-(o-methoxyphenoxy)propyl 1-carbamate
- 2-Hydroxy-3-(o-methoxyphenoxy)propyl carbamate
- 2-hydroxy-3-(2-methoxyphenoxy)propyl carbamate
- 3-(2-Methoxyphenoxy)-1-glyceryl carbamate
- 3-(o-Methoxyphenoxy)-1,2-propanediol 1-carbamate
- 3-(o-Methoxyphenoxy)-2-hydroxypropyl carbamate
- 3-O-(2-Methoxyphenyl)-1-glyceryl carbamate
- AHR 85
- Avetil
- Carbamic acid, 2-hydroxy-3-(o-methoxyphenoxy)propyl ester
- Delaxin
- Etroflex
- Glycerylguaiacolate Carbamate
- Glycerylguajacol-Carbamat
- Guaiacol glyceryl ether carbamate
- Guaiphenesin carbamate
- Guaiphenesine carbamate
- Guaiacol-gliceriletere monocarbammato
- Lumirelax
- Methocal
- Metocarbamol
- Metocarbamolo
- Metofenia
- Metofenina
- Miolaxene
- Miorilas
- Miowas
- Myolaxene
- NSC 170960
- Neuraxin
- Parabaxin
- Perilax
- Reflexyn
- Relax
- Relestrid
- Robamol
- Robaxan
- Robaxin

	Robaxine
	Robaxon
	Robinax
	Romethocarb
	Surquetil
	Traumacut
	Tresortil
Inchi:	InChI=1S/C11H15NO5/c1-15-9-4-2-3-5-10(9)16-6-8(13)7-17-11(12)14/h2-5,8,13H,6-7H2
InchiKey:	GNXFOGHNGIVQEH-UHFFFAOYSA-N
Formula:	C11H15NO5
SMILES:	COc1ccccc1OCC(O)COC(=N)O
Mol. weight [g/mol]:	241.24
CAS:	532-03-6

Physical Properties

Property code	Value	Unit	Source
gf	-242.96	kJ/mol	Joback Method
hf	-553.38	kJ/mol	Joback Method
hfus	38.60	kJ/mol	Study of Glass Transition Phenomena in the Supercooled Liquid Phase of Methocarbamol, Acetaminophen and Mephensin
hvap	95.30	kJ/mol	Joback Method
log10ws	-1.13		Aqueous Solubility Prediction Method
log10ws	-0.98		Estimated Solubility Method
logp	0.944		Crippen Method
mcvol	177.120	ml/mol	McGowan Method
tb	818.26	K	Joback Method
tf	494.78	K	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	524.31	J/molxK	818.26	Joback Method
cpg	123.73	J/molxK	100.12	Joback Method

cpg	123.73	J/mol×K	100.12	Joback Method
cpg	123.73	J/mol×K	100.12	Joback Method
cpg	123.73	J/mol×K	100.12	Joback Method
cpg	123.73	J/mol×K	100.12	Joback Method
cpg	123.73	J/mol×K	100.12	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/AqueousDataset002.xlsx
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=C532036&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Study of Glass Transition Phenomena in the Supercooled Liquid Phase of Methocarbamol, Acetaminophen and Mephensin:	https://www.doi.org/10.1016/j.tca.2013.10.035

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
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point

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