

Metoclopramide

Other names:

2-Methoxy-4-amino-5-chloro-N,N-dimethylaminoethylbenzamide
2-Methoxy-5-Chloroprocainamide
4-Amino-5-chloro-2-methoxy-N-(«beta»-diethylaminoethyl)benzamide
4-Amino-5-chloro-2-methoxy-N-("beta")-diethylaminoethyl)benzamide
4-Amino-5-chloro-N-(2-(diethylamino)ethyl)-2-methoxybenzamide
5-Chloro-2-methoxyprocainamide
Benzamide, 4-amino-5-chloro-N-[2-(diethylamino)ethyl]-2-methoxy-
DEL 1267
Gastromax
Maxeran
Metaclopramide
Metaclopramide
Methochlopramide
Methoclopramide
Metochlopramide
Metoclopramide
Metoclobil
Metocobil
Metramid
Moriperan
N-(Diethylaminoethyl)-2-methoxy-4-amino-5-chlorobenzamide
Parmid
Plasil
Plasil (pharmaceutical)
Primperan
Regla
Reliveran
o-Anisamide, 4-amino-5-chloro-N-[2-(diethylamino)ethyl]-

Inchi:

InChI=1S/C14H22ClN3O2/c1-4-18(5-2)7-6-17-14(19)10-8-11(15)12(16)9-13(10)20-3/h8-

InchiKey:

TTWJBBZEZQICBI-UHFFFAOYSA-N

Formula:

C14H22ClN3O2

SMILES:

CCN(CC)CCNC(=O)c1cc(Cl)c(N)cc1OC

Mol. weight [g/mol]:

299.80

CAS:

364-62-5

Physical Properties

Property code	Value	Unit	Source
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gf	171.29		kJ/mol	Joback Method
hf	-235.92		kJ/mol	Joback Method
hfus	45.19		kJ/mol	Joback Method
hvap	83.68		kJ/mol	Joback Method
log10ws	-3.57			Aqueous Solubility Prediction Method
logp	2.002			Crippen Method
mcvol	233.980		ml/mol	McGowan Method
pc	2068.00		kPa	Joback Method
rinpol	2630.00			NIST Webbook
rinpol	2624.00			NIST Webbook
rinpol	2602.00			NIST Webbook
rinpol	2630.00			NIST Webbook
rinpol	2602.00			NIST Webbook
rinpol	2630.00			NIST Webbook
rinpol	2650.00			NIST Webbook
tb	810.20		K	Joback Method
tc	1021.97		K	Joback Method
tf	581.99		K	Joback Method
vc	0.867		m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	678.85	J/mol×K	810.20	Joback Method
cpg	692.36	J/mol×K	845.50	Joback Method
cpg	704.91	J/mol×K	880.79	Joback Method
cpg	716.54	J/mol×K	916.09	Joback Method
cpg	727.27	J/mol×K	951.38	Joback Method
cpg	737.13	J/mol×K	986.68	Joback Method
cpg	746.15	J/mol×K	1021.97	Joback Method

Sources

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C364625&Units=SI>

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

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

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

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
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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