

Aminopyrine

Other names: (Dimethylamino)phenazone
(dimethylamino)analgesine
(dimethylamino)antipyrine
,3-Dimethyl-4-dimethylamino-1-phenyl-3-pyrazolin-5-one
1,5-Dimethyl-2-phenyl-4-dimethylamino-3-pyrazolone
1,5-Dimethyl-4-dimethylamino-2-phenyl-3-pyrazolone
1-Phenyl-2,3-dimethyl-4-(dimethylamino)-5-pyrazolone
1-Phenyl-2,3-dimethyl-4-dimethylaminopyrazol-5-one
1-Phenyl-2,3-dimethyl-4-dimethylaminopyrazolone-5
2,3-Dimethyl-4-dimethylamino-1-phenyl-5-pyrazolone
3-Pyrazolin-5-one, 4-(dimethylamino)-2,3-dimethyl-1-phenyl-
3-keto-1,5-Dimethyl-4-dimethylamino-2-phenyl-2,3-dihydropyrazole
3H-Pyrazol-3-one, 4-(dimethylamino)-1,2-dihydro-1,5-dimethyl-2-phenyl-
4-(Dimethylamino)antipyrine
4-(Dimethylamino)phenazone
4-Dimethylamino-1-phenyl-2,3-dimethylpyrazolone
4-Dimethylamino-2,3-dimethyl-1-phenyl-3-pyrazolin-5-one
4-Dimethylamino-2,3-dimethyl-1-phenyl-5-pyrazolone
4-N,N-Dimethylaminoantipyrine
4-dimethylaminoantipyrine
4-dimethylaminophenazone
Amidazofen
Amidazophen
Amidazophene
Amidofebrin
Amidofen
Amidophen
Amidophenazone
Amidopyrazoline
Amidopyrin
Amidopyrine
Aminofenazone
Aminophenazon
Aminophenazone
Aminopyrin
Anafebrina
Antipyrine, 4-(dimethylamino)-
Brufaneuxol
Dereuma
Dimapyrin

Dimethylamino-analgesine
 Dimethylaminoantipyrine
 Dimethylaminoazophene
 Dimethylaminophenazon
 Dimethylaminophenyldimethylpyrazolin
 Dimethylaminophenyldimethylpyrazolone
 Dimethylaminophenyldimethylpyrazone
 Dipirin
 Dipyrin
 Dipyrine
 Eufibron
 Febrinina
 Febron
 Hyparon
 Itamidone
 Mamallet-A
 Netsusarin
 Novamidon
 Piramidon
 Piramidone
 Pirazon
 Piridol
 Piromidina
 Polinalin
 Pyradone
 Pyramidon
 Pyramidone

Inchi: InChI=1S/C13H17N3O/c1-10-12(14(2)3)13(17)16(15(10)4)11-8-6-5-7-9-11/h5-9H,1-4H3
InchiKey: RMMXTBMQSGEXHJ-UHFFFAOYSA-N
Formula: C13H17N3O
SMILES: Cc1c(N(C)C)c(=O)n(-c2ccccc2)n1C
Mol. weight [g/mol]: 231.29
CAS: 58-15-1

Physical Properties

Property code	Value	Unit	Source
log10ws	-0.73		Aqueous Solubility Prediction Method
log10ws	-0.36		Estimated Solubility Method

log10ws	-0.62		Aqueous and cosolvent solubility data for drug-like organic compounds
logp	1.550		Crippen Method
mcvol	186.620	ml/mol	McGowan Method
rinpol	1940.00		NIST Webbook
rinpol	1925.00		NIST Webbook
rinpol	1950.00		NIST Webbook
rinpol	1917.00		NIST Webbook
rinpol	1890.00		NIST Webbook
rinpol	1903.00		NIST Webbook
rinpol	1900.00		NIST Webbook
rinpol	1905.00		NIST Webbook
rinpol	1935.00		NIST Webbook
rinpol	1877.00		NIST Webbook
rinpol	1879.00		NIST Webbook
rinpol	1880.00		NIST Webbook
rinpol	1916.00		NIST Webbook
rinpol	1950.00		NIST Webbook
rinpol	1915.00		NIST Webbook
rinpol	1903.00		NIST Webbook
rinpol	1890.00		NIST Webbook
rinpol	1905.00		NIST Webbook
rinpol	1903.00		NIST Webbook
tf	389.77	K	Aqueous Solubility Prediction Method

Sources

Estimated Solubility Method: http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt

Aqueous and cosolvent solubility data for drug-like organic compounds: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2751500/>

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

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C58151&Units=SI>

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

Measurements for the solid solubilities of antipyrine, 4-aminoantipyrine and 4-aminoantipyrine: <https://www.doi.org/10.1016/j.fluid.2009.04.019>

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

Legend

log10ws: Log10 of Water solubility in mol/l

logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume
rinpol: Non-polar retention indices
tf: Normal melting (fusion) point

Latest version available from:

<https://www.chemeo.com/cid/25-494-6/Aminopyrine.pdf>

Generated by Cheméo on 2024-04-19 22:23:54.594503517 +0000 UTC m=+15854683.515080832.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.