

Amithiozone

Other names:

4'-Formylacetanilide thiosemicarbazone
4-acetylaminobenzaldehyde thiosemicarbazone
4207RP
A 4081
Acetamide, N-(4-(((aminothiomethyl)hydrazono)methylene)phenyl)-
Acetamide, N-[4-[[[(aminothioxomethyl)hydrazono]methyl]phenyl]-
Acetamide, N-[4-[[2-(aminothioxomethyl)hydrazinylidene]methyl]phenyl]-
Acetamide, N1-(4-([2-(aminocarbothioyl)hydrazono]methyl)phenyl)
Acetanilide, 4'-formyl-, 4'-(thiosemicarbazone)
Acetanilide, 4'-formyl-, thiosemicarbazone
Aktivan
Ambathizon
Amitiozon
Antib
Benthiozone
Benzothiozane
Benzothiozon
Berculon A
Berkazon
CBC 903150
Conteben
Diasan
Diazan
Diazane
Domagk's T.B.1 conteben
Domakol
Ilbion
Livazone
Magk'S T.B.1 conteben
Mirizone Neustab
Mivizon
Myvizone
N-(4-((2-carbamothioylhydrazono)methyl)phenyl)acetamide
N-(4-([2-(Aminocarbothioyl)hydrazono]methyl)phenyl)acetamide
Neotibil
Neustab
Novakol
Nuclon argentinian
Panrone
Parazone

RP 4207
SQ 2321
Sdt 1041
Seroden
Siocarbazone
TB I
TB I (Bayer)
TB I/698
Tebalon
Tebecure
Tebemar
Tebesone I
Tebethion
Tebethione
Tebezon
Thiacetazone
Thiacetone
Thiacetozone
Thibon
Thibone
Thioacetazon
Thioacetazone
Thioazetazone
Thiocarbazil
Thiomacid
Thionacid
Thioparamizon
Thioparamizone
Thiosemicarbarzone
Thiosemicarbazone
Thiotebesin
Thiotebezin
Thiotebicina
Thizone
Tiacetazon
Tibicur
Tibion
Tibione
Tibizan
Tibon
Tibone
Tioacetazon
Tioatsetazon

	Tiobicina
	Tiocarone
	Tiosecolo
	Tubercazon
	Tubigal
	Tubin
	p-Acetamidobenzaldehyde thiosemicarbazon
	p-Acetamidobenzaldehyde thiosemicarbazone
	p-Acetaminobenzylidenethiosemicarbazone
	p-Acetoaminobenzaldehyde thiosemicarbazone
	p-Acetylaminobenzaldehyde thiosemicarbazone
	p-Formylacetanilide-3-thiosemicarbazone
Inchi:	InChI=1S/C10H12N4OS/c1-7(15)13-9-4-2-8(3-5-9)6-12-14-10(11)16/h2-6H,1H3,(H,13,15)
InchiKey:	SRVJKTDHMYAMHA-UHFFFAOYSA-N
Formula:	C10H12N4OS
SMILES:	CC(=O)Nc1ccc(C=NNC(N)=S)cc1
Mol. weight [g/mol]:	236.29
CAS:	104-06-3

Physical Properties

Property code	Value	Unit	Source
hf	232.20	kJ/mol	Joback Method
hvap	81.09	kJ/mol	Joback Method
log10ws	-2.70		Crippen Method
logp	0.812		Crippen Method
mcvol	177.240	ml/mol	McGowan Method
pc	3345.11	kPa	Joback Method
rinpol	2038.00		NIST Webbook
rinpol	2038.00		NIST Webbook
tb	833.32	K	Joback Method
tc	1086.80	K	Joback Method
tf	502.15	K	Physico-chemical characterization antituberculosis thioacetazone: Vapor pressure, solubility and lipophilicity

Sources

Physico-chemical characterization
antituberculosis thioacetazone: Vapor
pressure, Solubility and lipophilicity:

McGowan Method:

NIST Webbook:

Crippen Method:

Crippen Method:

<https://www.doi.org/10.1016/j.jct.2016.12.034>

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

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

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C104063&Units=SI>

<http://pubs.acs.org/doi/abs/10.1021/ci990307l>

https://www.chemeo.com/doc/models/crippen_log10ws

Legend

hf:	Enthalpy of formation 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
rlnpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point

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