Thiabendazole

Other names:

1H-Benzimidazole, 2-(4-thiazolyl)-
Benzimidazole, 2-(4-thiazolyl)-
Equizole
Mertec
Mertect
Mertect 160
Metasol TK 100
Mintesol
Mintezol
Minzolum
MK 360
Omnizole
Tebuzate
Tecto
Tecto 10P
Tecto 40F
Tecto 60
Testo
Thiabendazol
Thiabenzole
Thibenzol
Thibenzole
Thibenzole 200
Tiabenda
Triasox
TBZ
TBZ 6
TBZ 60W
2-(Thiazol-4-yl)benzimidazole
2-(4-Thiazolyl)benzimidazole
2-(4'-Thiazolyl)benzimidazole
Apl-Luster
Bovizole
E-Z-Ex
Eprofil
Lombristop
Mycozol
Nemapan
Polival
Thiaben

Thibenzole ATT
Top form wormer
2-Thiazole-4-ylbenzimidazole
Arbotect
4-(2-Benzimidazolyl)thiazole
Bioguard
RPH
Storite
Tbdz
Tecto rph
Thiabenzazole
2-(4-Thiazolyl)-1H-benzimidazole
Tobaz
Tiabendazole
Equivet TZ
Tiabendazol
Tibimix 20
Thibendole
Thiabendole
Sistesan
Sanaizol 100
Chemviron TK 100
Tecto B
5-(4-Thiazolyl)benzimidazole
Ormogal
Cropasal
Drawipas
g 491
Hokustar HP
Mertect 340F
Mertect LSP
2-(1,3-Thiazol-4-yl)benzimidazole
Hymush
Nemacin
Thiprazole
Tubazole
2-(4-Thiazolyl)-1H-benzoimidazole
4-(1H-Benzimidazol-2-yl)thiazole
Pitrizet
Metasol TK 25
Statin
2-(4-Thiazolyl)-1H-benzimidazole (thiabendazole)

Inchi: InChI=1S/C10H7N3S/c1-2-4-8-7(3-1)12-10(13-8)9-5-14-6-11-9/h1-6H,(H,12,13)

InchiKey: WJCNZQLZVWNLKY-UHFFFAOYSA-N
Formula: C10H7N3S
SMILES: c1ccc2[nH]c(-c3cscn3)nc2c1
Mol. weight [g/mol]: 201.25
CAS: 148-79-8

Physical Properties

Property code	Value	Unit	Source
log10ws	-4.39		Crippen Method
logp	2.204		Crippen Method
mcvol	139.670	ml/mol	McGowan Method
rinpol	2088.00		NIST Webbook
rinpol	2080.00		NIST Webbook
rinpol	2010.00		NIST Webbook
rinpol	2091.00		NIST Webbook
rinpol	2040.00		NIST Webbook
rinpol	2080.00		NIST Webbook
rinpol	2010.00		NIST Webbook
rinpol	2091.00		NIST Webbook
tf	574.80 ± 0.20	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	35.20	kJ/mol	573.20	NIST Webbook

Sources

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C148798&Units=SI

Legend

hfust:	Enthalpy of fusion at a given temperature
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