

# Tolnaftate

**Other names:**

Carbamothioic acid, methyl(3-methylphenyl)-, O-2-naphthalenyl ester  
Aftate  
Carbanilic acid, m,N-dimethylthio-, O-2-naphthyl ester  
Carbanilic acid, N,m-dimethylthio-, O-2-naphthyl ester  
Dermoxin  
Focusan  
Naphthiomate T  
O-2-Naphthyl m,N-dimethylthiocarbanilate  
Pitrex  
Sch 10144  
Sporiline  
Tinactin  
Tinaderm  
Tinavet  
Tolsanil  
Tonofthal  
m,N-Dimethylthiocarbanilic acid O-2-naphthyl ester  
Hi-Alazin  
Methyl (3-methylphenyl)carbamothioic acid O-2-naphthalenyl ester  
2-Naphthyl N-methyl-N-(3-tolyl)thionocarbamate  
Tolnaphthate  
Chinofungin  
Dr. Scholl's athlete's foot spray  
Dungistop  
Hi-Alarzin  
O-2-Naphthyl N,N-dimethylthiocarbanilate  
Timoped  
Tniaderm  
Tritin  
Carbamothioic acid, N-methyl-N-(3-methylphenyl)-, O-2-naphthalenyl ester  
NSC 233648  
Phytoderm

**Inchi:** InChI=1S/C19H17NOS/c1-14-6-5-9-17(12-14)20(2)19(22)21-18-11-10-15-7-3-4-8-16(15)  
**InchiKey:** FUSNMLFNXJSCDI-UHFFFAOYSA-N  
**Formula:** C19H17NOS  
**SMILES:** Cc1cccc(N(C)C(=S)Oc2ccc3ccccc3c2)c1  
**Mol. weight [g/mol]:** 307.41  
**CAS:** 2398-96-1

# Physical Properties

Property code	Value	Unit	Source
gf	544.15	kJ/mol	Joback Method
hf	287.51	kJ/mol	Joback Method
hfus	38.10	kJ/mol	Joback Method
hvap	76.59	kJ/mol	Joback Method
log10ws	-6.36		Crippen Method
logp	4.948		Crippen Method
mcvol	239.490	ml/mol	McGowan Method
pc	2284.95	kPa	Joback Method
tb	821.32	K	Joback Method
tc	1078.64	K	Joback Method
tf	384.00 ± 1.00	K	NIST Webbook
vc	0.877	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	660.78	J/mol×K	821.32	Joback Method
cpg	675.75	J/mol×K	864.21	Joback Method
cpg	689.67	J/mol×K	907.09	Joback Method
cpg	702.71	J/mol×K	949.98	Joback Method
cpg	715.07	J/mol×K	992.87	Joback Method
cpg	726.92	J/mol×K	1035.75	Joback Method
cpg	738.45	J/mol×K	1078.64	Joback Method

# Sources

**Joback Method:**

[https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

**McGowan Method:**

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

**NIST Webbook:**

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C2398961&Units=SI>

**Crippen Method:**

<http://pubs.acs.org/doi/abs/10.1021/ci990307I>

**Crippen Method:**

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvac:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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