

# Ametryn

## Other names:

1,3,5-Triazine-2,4-diamine, N-ethyl-N'-(1-methylethyl)-6-(methylthio)-2-(Ethylamino)-4-(isopropylamino)-6-(methylmercapto)-s-triazine  
2-(Ethylamino)-4-(isopropylamino)-6-(methylthio)-s-triazine  
2-(Methylmercapto)-4-(ethylamino)-6-(isopropylamino)-s-triazine  
2-(Methylmercapto)-4-(isopropylamino)-6-(ethylamino)-s-triazine  
2-(Methylthio)-4-(ethylamino)-6-(isopropylamino)-s-triazine  
2-Ethylamino-4-isopropylamino-6-methylthio-1,3,5-triazine  
2-ethylamino-4-isopropylamino-6-methylthio-s-triazine  
2-methylthio-4-ethylamino-6-isopropylamino-1,3,5-triazine  
A 1093  
Amephyt  
Ametrex  
Ametrine  
Ametryne  
Cemerin  
Crisatrine  
Doruplant  
Evik  
G 34162  
Gesapax  
Mebatryne  
N-Ethyl-N'-(1-methylethyl)-6-(methylthio)-1,3,5-triazine-2,4-diamine  
N-Ethyl-N'-isopropyl-6-methylthio-1,3,5-triazine-2,4-diamine  
N-ethyl-N'-(1-methylethyl)-6-methylthio-1,3,5-triazine-2,4-diamine  
NSC 163044  
Primatol Z 80  
Trinatox D  
s-Triazine, 2-(ethylamino)-4-(isopropylamino)-6-(methylthio)-  
**Inchi:** InChI=1S/C9H17N5S/c1-5-10-7-12-8(11-6(2)3)14-9(13-7)15-4/h6H,5H2,1-4H3,(H2,10,11)  
**InchiKey:** RQVYBGPQFYCBGX-UHFFFAOYSA-N  
**Formula:** C9H17N5S  
**SMILES:** CCNc1nc(NC(C)C)nc(SC)n1  
**Mol. weight [g/mol]:** 227.33  
**CAS:** 834-12-8

## Physical Properties

Property code	Value	Unit	Source
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chs	-6510.80 ± 4.20		kJ/mol	NIST Webbook
hf	38.50 ± 6.30		kJ/mol	NIST Webbook
hfs	-63.10 ± 5.00		kJ/mol	NIST Webbook
hfus	26.00		kJ/mol	Vapor Pressures and Standard Molar Sublimation Enthalpies of Three 6-Methylthio-2,4-di(alkylamino)-1,3,5-triazine Derivatives: Simetryn, Ametryn, and Terbutryn
hvap	118.00 ± 4.00		kJ/mol	NIST Webbook
hvap	125.00 ± 6.00		kJ/mol	NIST Webbook
log10ws	-3.04			Estimated Solubility Method
log10ws	-3.04			Aqueous Solubility Prediction Method
logp	1.846			Crippen Method
mcvol	180.160		ml/mol	McGowan Method
rinpol	1911.00			NIST Webbook
rinpol	1869.00			NIST Webbook
rinpol	1911.00			NIST Webbook
rinpol	1882.00			NIST Webbook
rinpol	1882.00			NIST Webbook
rinpol	1911.00			NIST Webbook
rinpol	1907.00			NIST Webbook
rinpol	1912.00			NIST Webbook
rinpol	1916.00			NIST Webbook
rinpol	1860.00			NIST Webbook
rinpol	1872.00			NIST Webbook
ripol	2837.00			NIST Webbook
ripol	2837.00			NIST Webbook
ripol	2859.00			NIST Webbook
ripol	2837.00			NIST Webbook

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	26.00	kJ/mol	359.10	NIST Webbook
hsubt	100.90	kJ/mol	363.00	NIST Webbook
hvapt	91.00 ± 4.00	kJ/mol	466.00	NIST Webbook
hvapt	84.90 ± 1.30	kJ/mol	453.00	NIST Webbook

# Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	2.54113e+01
Coeff. B	-1.21346e+04
Temperature range (K), min.	482.99
Temperature range (K), max.	603.72

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C834128&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C834128&amp;Units=SI</a>
<b>The Yaws Handbook of Vapor Pressure:</b>	<a href="https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure">https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Vapor Pressures and Standard Molar Sublimation Enthalpies of Three Aqueous Solubility Prediction Method:</b>	<a href="https://www.doi.org/10.1021/je600580r">https://www.doi.org/10.1021/je600580r</a>
<b>6-Azanylnolizine, 6-Azanylnolizine Derivatives: Simetryn, Ametryn, and Terbutryn. Solubility Method:</b>	<a href="http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx">http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx</a>
<b>McGowan Method:</b>	<a href="http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt">http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt</a>
	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

## Legend

<b>chs:</b>	Standard solid enthalpy of combustion
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfs:</b>	Solid phase enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hfust:</b>	Enthalpy of fusion at a given temperature
<b>hsubt:</b>	Enthalpy of sublimation at a given temperature
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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>pvap:</b>	Vapor pressure
<b>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices

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