

Carbamic acid, methylnitroso-, ethyl ester

Other names:	Ethyl N-methylnitrosocarbamate Methyl-N-nitrosourethane Methylnitrosourethane N-Methyl-N-nitrosourethane N-Nitro-N-methylurethan N-Nitroso-N-methylurethane Nitrosomethylurethane NSC 2860 Carbamic acid, N-methyl-N-nitroso-, ethyl ester Ethyl ester of methylnitroso-carbamic acid Methylnitrosourethan MNU MNUN N-Methyl-N-nitrosocarbamic acid, ethyl ester N-Methyl-N-nitrosoethylcarbamate NMUT Ethylester kyseliny N-methyl-N-nitrosokarbaminove Nitrosomethylurethan Rcra waste number U178 ethyl methylnitrosocarbamate
Inchi:	InChI=1S/C4H8N2O3/c1-3-9-4(7)6(2)5-8/h3H2,1-2H3
InchiKey:	CAUBWLYZCDDYEF-UHFFFAOYSA-N
Formula:	C4H8N2O3
SMILES:	CCOC(=O)N(C)N=O
Mol. weight [g/mol]:	132.12
CAS:	615-53-2

Physical Properties

Property code	Value	Unit	Source
hf	-471.35	kJ/mol	Joback Method
hvap	44.79	kJ/mol	Joback Method
log10ws	-1.09		Crippen Method
logp	0.756		Crippen Method
mcvol	96.190	ml/mol	McGowan Method
pc	4026.13	kPa	Joback Method
tb	443.05	K	Joback Method
tc	622.35	K	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
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=C615532&Units=SI

Legend

hf:	Enthalpy of formation at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

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