

Dimethylol ethylene urea

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|-----------------------------|---|
| Other names: | 2-Imidazolidinone, 1,3-bis(hydroxymethyl)- Aerotex Reactant No. 100 BT 324 Calaroc EU Carbamol TsEM Cassurit RI Cyclic dimethylolethyleneurea Dimethylol cyclic ethyleneurea Dimethylolcycloethyleneurea Fixapret AH Karbamol TsEM Kurbamol TsEM N,N'-Bis(hydroxymethyl)ethyleneurea N,N'-Dimethylol-N,N'-ethyleneurea N,N'-Dimethylolethyleneurea Neuperm ON Prym E Quecodur AE Rhonite R 1 Silesian EM Verapret AN Zeset S 1,3-Bis(hydroxymethyl)-2-imidazolidinone 1,3-Dihydroxymethyl-2-imidazolidone 1,3-Dimethylol-2-imidazolidinone 1,3-Dimethylolethyleneurea NSC 57546 1,3-bis(hydroxymethyl)imidazolidin-2-one |
| Inchi: | InChI=1S/C5H10N2O3/c8-3-6-1-2-7(4-9)5(6)10/h8-9H,1-4H2 |
| InchiKey: | WVJOGYWFVNTSAU-UHFFFAOYSA-N |
| Formula: | C5H10N2O3 |
| SMILES: | O=C1N(CO)CCN1CO |
| Mol. weight [g/mol]: | 146.14 |
| CAS: | 136-84-5 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|-------|------|--------|
|---------------|-------|------|--------|

| | | | |
|---------|---------|--------|----------------|
| log10ws | 0.78 | | Crippen Method |
| logp | -1.376 | | Crippen Method |
| mcvol | 103.720 | ml/mol | McGowan Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C136845&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.cheméo.com/doc/models/crippen_log10ws |

Legend

| | |
|-----------------|-------------------------------------|
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mcvol: | McGowan's characteristic volume |

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