# Carbonic acid, monoamide, N-heptyl-, decyl ester

**Inchi:** InChI=1S/C18H37NO2/c1-3-5-7-9-10-11-13-15-17-21-18(20)19-16-14-12-8-6-4-2/h3-17H

**InchiKey:** UGRFRJGENGQXRU-UHFFFAOYSA-N

**Formula:** C18H37NO2

**SMILES:** CCCCCCCCCCOC(O)=NCCCCCCC

**Mol. weight [g/mol]:** 299.49

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hf | -626.87 | kJ/mol | Joback Method |
| hvap | 78.14 | kJ/mol | Joback Method |
| log10ws | -5.92 | | Crippen Method |
| logp | 6.028 | | Crippen Method |
| mcvol | 281.900 | ml/mol | McGowan Method |
| pc | 1132.91 | kPa | Joback Method |
| rinpol | 2428.00 | | NIST Webbook |
| rinpol | 2428.00 | | NIST Webbook |
| tb | 802.40 | K | Joback Method |
| tc | 984.56 | K | Joback Method |

## Sources

**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l

**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=U415182&Units=SI

## Legend

**hf:** Enthalpy of formation at standard conditions

**hvap:** Enthalpy of vaporization at standard conditions

| | |
|---|---|
| **log10ws:** | Log10 of Water solubility in mol/l |
| **logp:** | Octanol/Water partition coefficient |
| **mcvol:** | McGowan's characteristic volume |
| **pc:** | Critical Pressure |
| **rinpol:** | Non-polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |