

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

Inchi:	InChI=1S/C19H39NO2/c1-3-5-7-9-11-12-13-15-17-20-19(21)22-18-16-14-10-8-6-4-2/h3-
InchiKey:	PYOOSFCTCMPNJF-UHFFFAOYSA-N
Formula:	C19H39NO2
SMILES:	CCCCCCCCCN=C(O)CCCCCCCC
Mol. weight [g/mol]:	313.52

## Physical Properties

Property code	Value	Unit	Source
hf	-647.51	kJ/mol	Joback Method
hvap	80.37	kJ/mol	Joback Method
log10ws	-6.34		Crippen Method
logp	6.418		Crippen Method
mcvol	295.990	ml/mol	McGowan Method
pc	1063.10	kPa	Joback Method
rinpol	2328.00		NIST Webbook
rinpol	2328.00		NIST Webbook
tb	825.28	K	Joback Method
tc	1011.08	K	Joback Method

## Sources

NIST Webbook:	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U406532&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406532&amp;Units=SI</a>
Crippen Method:	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
Crippen Method:	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
Joback Method:	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
McGowan Method:	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

## Legend

hf:	Enthalpy of formation at standard conditions
hvap:	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>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

Latest version available from:

<https://www.chemeo.com/cid/97-647-7/Carbonic-acid-monoamide-N-decyl-octyl-ester.pdf>

Generated by Cheméo on 2024-05-02 05:13:28.343877466 +0000 UTC m=+16916057.264454778.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.