

# octyl tetracosanoate

<b>Inchi:</b>	InChI=1S/C32H64O2/c1-3-5-7-9-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-28-
<b>InchiKey:</b>	FCMRBELHUUZMAA-UHFFFAOYSA-N
<b>Formula:</b>	C32H64O2
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCCCCCCCC(=O)CCCCCCCC
<b>Mol. weight [g/mol]:</b>	480.85

## Physical Properties

Property code	Value	Unit	Source
gf	-15.36	kJ/mol	Joback Method
hf	-948.61	kJ/mol	Joback Method
hfus	81.42	kJ/mol	Joback Method
hvap	95.98	kJ/mol	Joback Method
log10ws	-12.08		Crippen Method
logp	11.492		Crippen Method
mvol	469.180	ml/mol	McGowan Method
pc	555.20	kPa	Joback Method
rinpol	3361.03		NIST Webbook
rinpol	3361.03		NIST Webbook
tb	1007.85	K	Joback Method
tc	1268.18	K	Joback Method
tf	522.56	K	Joback Method
vc	1.851	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1683.18	J/molxK	1007.85	Joback Method
cpg	1803.68	J/molxK	1224.79	Joback Method
cpg	1783.67	J/molxK	1181.40	Joback Method
cpg	1761.76	J/molxK	1138.01	Joback Method
cpg	1737.81	J/molxK	1094.63	Joback Method
cpg	1711.67	J/molxK	1051.24	Joback Method
cpg	1821.94	J/molxK	1268.18	Joback Method
dvisc	0.0000123	Paxs	1007.85	Joback Method

dvisc	0.0000169	Paxs	926.97	Joback Method
dvisc	0.0000247	Paxs	846.09	Joback Method
dvisc	0.0000392	Paxs	765.20	Joback Method
dvisc	0.0000693	Paxs	684.32	Joback Method
dvisc	0.0001429	Paxs	603.44	Joback Method
dvisc	0.0003683	Paxs	522.56	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R437973&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R437973&amp;Units=SI</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>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	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
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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