

# octacosanal

<b>Inchi:</b>	InChI=1S/C28H56O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-
<b>InchiKey:</b>	LVXORIXZNUNHGQ-UHFFFAOYSA-N
<b>Formula:</b>	C28H56O
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCCCCCCCCCCCC=O
<b>Mol. weight [g/mol]:</b>	408.74
<b>CAS:</b>	22725-64-0

## Physical Properties

Property code	Value	Unit	Source
gf	85.36	kJ/mol	Joback Method
hf	-706.83	kJ/mol	Joback Method
hfus	70.57	kJ/mol	Joback Method
hvap	84.64	kJ/mol	Joback Method
log10ws	-10.82		Crippen Method
logp	10.348		Crippen Method
mcvol	406.950	ml/mol	McGowan Method
pc	681.00	kPa	Joback Method
rinpol	3039.70		NIST Webbook
rinpol	3014.00		NIST Webbook
rinpol	3014.00		NIST Webbook
rinpol	3039.70		NIST Webbook
rinpol	3032.00		NIST Webbook
tb	888.70	K	Joback Method
tc	1092.98	K	Joback Method
tf	447.32	K	Joback Method
vc	1.621	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1379.36	J/molxK	888.70	Joback Method
cpg	1489.01	J/molxK	1058.93	Joback Method
cpg	1469.59	J/molxK	1024.89	Joback Method
cpg	1448.99	J/molxK	990.84	Joback Method

cpg	1427.14	J/mol×K	956.79	Joback Method
cpg	1403.96	J/mol×K	922.75	Joback Method
cpg	1507.33	J/mol×K	1092.98	Joback Method
dvisc	0.0000349	Paxs	888.70	Joback Method
dvisc	0.0000480	Paxs	815.14	Joback Method
dvisc	0.0000704	Paxs	741.57	Joback Method
dvisc	0.0001122	Paxs	668.01	Joback Method
dvisc	0.0002008	Paxs	594.45	Joback Method
dvisc	0.0004233	Paxs	520.88	Joback Method
dvisc	0.0011405	Paxs	447.32	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>
<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=C22725640&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C22725640&amp;Units=SI</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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