

# 1-Docosanol, formate

<b>Other names:</b>	Docosanyl formate
<b>Inchi:</b>	InChI=1S/C23H46O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-25-23
<b>InchiKey:</b>	YOBPFSBRTYQJGQ-UHFFFAOYSA-N
<b>Formula:</b>	C23H46O2
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCCCCCCCCOC=O
<b>Mol. weight [g/mol]:</b>	354.61
<b>CAS:</b>	15155-62-1

## Physical Properties

Property code	Value	Unit	Source
gf	-61.74	kJ/mol	Joback Method
hf	-735.85	kJ/mol	Joback Method
hfus	58.80	kJ/mol	Joback Method
hvap	75.92	kJ/mol	Joback Method
log10ws	-8.31		Crippen Method
logp	7.981		Crippen Method
mcvol	342.370	ml/mol	McGowan Method
pc	881.04	kPa	Joback Method
rinpol	2524.00		NIST Webbook
rinpol	2524.00		NIST Webbook
tb	796.72	K	Joback Method
tc	975.75	K	Joback Method
tf	413.20	K	Joback Method
vc	1.359	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1091.86	J/molxK	796.72	Joback Method
cpg	1112.91	J/molxK	826.56	Joback Method
cpg	1132.90	J/molxK	856.40	Joback Method
cpg	1151.85	J/molxK	886.23	Joback Method
cpg	1169.80	J/molxK	916.07	Joback Method
cpg	1186.78	J/molxK	945.91	Joback Method

cpg	1202.83	J/mol×K	975.75	Joback Method
dvisc	0.0013966	Paxs	413.20	Joback Method
dvisc	0.0005650	Paxs	477.12	Joback Method
dvisc	0.0002831	Paxs	541.04	Joback Method
dvisc	0.0001642	Paxs	604.96	Joback Method
dvisc	0.0001056	Paxs	668.88	Joback Method
dvisc	0.0000734	Paxs	732.80	Joback Method
dvisc	0.0000541	Paxs	796.72	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C15155621&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C15155621&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>

## 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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