

# Tetracosane, 1-iodo-

**Inchi:** InChI=1S/C24H49I/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25  
**InchiKey:** BGKYLPRHHSYFV-UHFFFAOYSA-N  
**Formula:** C24H49I  
**SMILES:** CCCCCCCCCCCCCCCCCCCCCCCI  
**Mol. weight [g/mol]:** 464.55

## Physical Properties

Property code	Value	Unit	Source
gf	209.32	kJ/mol	Joback Method
hf	-461.82	kJ/mol	Joback Method
hfus	62.32	kJ/mol	Joback Method
hvap	78.39	kJ/mol	Joback Method
log10ws	-10.82		Crippen Method
logp	10.024		Crippen Method
mcvol	374.840	ml/mol	McGowan Method
pc	796.18	kPa	Joback Method
rinqol	2942.00		NIST Webbook
tb	841.66	K	Joback Method
tc	1031.34	K	Joback Method
tf	418.30	K	Joback Method
vc	1.468	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1169.50	J/molxK	841.66	Joback Method
cpg	1190.95	J/molxK	873.27	Joback Method
cpg	1211.31	J/molxK	904.89	Joback Method
cpg	1230.66	J/molxK	936.50	Joback Method
cpg	1249.05	J/molxK	968.11	Joback Method
cpg	1266.54	J/molxK	999.73	Joback Method
cpg	1283.18	J/molxK	1031.34	Joback Method
dvisc	0.0013787	Paxs	418.30	Joback Method
dvisc	0.0005024	Paxs	488.86	Joback Method

dvisc	0.0002362	Paxs	559.42	Joback Method
dvisc	0.0001315	Paxs	629.98	Joback Method
dvisc	0.0000823	Paxs	700.54	Joback Method
dvisc	0.0000562	Paxs	771.10	Joback Method
dvisc	0.0000409	Paxs	841.66	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U406320&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U406320&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>
<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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