

Docosane, 2,4-dimethyl-

Other names:	2,4-dimethyldocosane
Inchi:	InChI=1S/C24H50/c1-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-24(4)22-23(2)3/h2
InchiKey:	UGJBVGQOKDFHDN-UHFFFAOYSA-N
Formula:	C24H50
SMILES:	CCCCCCCCCCCCCCCCCCCC(C)CC(C)C
Mol. weight [g/mol]:	338.65
CAS:	77536-30-2

Physical Properties

Property code	Value	Unit	Source
gf	146.32	kJ/mol	Joback Method
hf	-549.25	kJ/mol	Joback Method
hfus	50.87	kJ/mol	Joback Method
hvap	68.24	kJ/mol	Joback Method
log10ws	-9.39		Crippen Method
logp	9.320		Crippen Method
mcvol	349.020	ml/mol	McGowan Method
pc	813.53	kPa	Joback Method
tb	747.64	K	Joback Method
tc	918.49	K	Joback Method
tf	330.24	K	Joback Method
vc	1.367	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1088.25	J/mol×K	747.64	Joback Method
cpg	1111.28	J/mol×K	776.12	Joback Method
cpg	1133.26	J/mol×K	804.59	Joback Method
cpg	1154.22	J/mol×K	833.07	Joback Method
cpg	1174.19	J/mol×K	861.54	Joback Method
cpg	1193.23	J/mol×K	890.02	Joback Method
cpg	1211.36	J/mol×K	918.49	Joback Method
dvisc	0.0043011	Pa×s	330.24	Joback Method

dvisc	0.0010669	Pa×s	399.81	Joback Method
dvisc	0.0004001	Pa×s	469.37	Joback Method
dvisc	0.0001933	Pa×s	538.94	Joback Method
dvisc	0.0001102	Pa×s	608.51	Joback Method
dvisc	0.0000706	Pa×s	678.07	Joback Method
dvisc	0.0000491	Pa×s	747.64	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C77536302&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/77-362-5/Docosane-2-4-dimethyl.pdf>

Generated by Cheméo on 2025-12-05 06:40:29.008524164 +0000 UTC m=+4665026.538564822.

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