

8-Heptadecene, 9-octyl-

Other names:	9-Octyl-8-heptadecene 9-n-Octyl-8-heptadecene
Inchi:	InChI=1S/C25H50/c1-4-7-10-13-16-19-22-25(23-20-17-14-11-8-5-2)24-21-18-15-12-9-6-3
InchiKey:	QEKKDSRVFBLJFX-UHFFFAOYSA-N
Formula:	C25H50
SMILES:	CCCCCCCC=C(CCCCCCCC)CCCCCCCC
Mol. weight [g/mol]:	350.66
CAS:	24306-18-1

Physical Properties

Property code	Value	Unit	Source
gf	231.29	kJ/mol	Joback Method
hf	-451.90	kJ/mol	Joback Method
hfus	59.40	kJ/mol	Joback Method
hvap	71.28	kJ/mol	Joback Method
log10ws	-10.14		Crippen Method
logp	9.775		Crippen Method
mcvol	358.810	ml/mol	McGowan Method
pc	788.60	kPa	Joback Method
tb	775.44	K	Joback Method
tc	951.00	K	Joback Method
tf	233.15 ± 0.50	K	NIST Webbook
vc	1.417	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1231.67	J/mol×K	921.74	Joback Method
cpg	1127.58	J/mol×K	775.44	Joback Method
cpg	1150.39	J/mol×K	804.70	Joback Method
cpg	1172.16	J/mol×K	833.96	Joback Method
cpg	1192.93	J/mol×K	863.22	Joback Method
cpg	1212.74	J/mol×K	892.48	Joback Method
cpg	1249.74	J/mol×K	951.00	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.60186e+01
Coeff. B	-6.14700e+03
Coeff. C	-1.28564e+02
Temperature range (K), min.	519.32
Temperature range (K), max.	702.67

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=C24306181&Units=SI>

The Yaws Handbook of Vapor Pressure: <https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>

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
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
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
pvap:	Vapor pressure

tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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