

Cyclononasiloxane, octadecamethyl-

[illegible]

Physical Properties

Property code	Value	Unit	Source
log10ws	13.27		Crippen Method
logp	6.466		Crippen Method
rinpol	1858.00		NIST Webbook
rinpol	1858.00		NIST Webbook
rinpol	1871.00		NIST Webbook
rinpol	1865.00		NIST Webbook
rinpol	1866.00		NIST Webbook
rinpol	1868.00		NIST Webbook
rinpol	1869.00		NIST Webbook
rinpol	1874.00		NIST Webbook
rinpol	1874.00		NIST Webbook
rinpol	1855.00		NIST Webbook
rinpol	1865.00		NIST Webbook
rinpol	1874.00		NIST Webbook
tf	250.00 ± 1.00	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	25.64	kJ/mol	246.20	NIST Webbook
hvapt	67.90	kJ/mol	523.50	NIST Webbook
hvapt	68.00	kJ/mol	525.50	NIST Webbook

pvap	4.73e-04	kPa	338.15	Temperature-Dependent Vapor Pressure of Selected Cyclic and Linear Polydimethylsiloxane Oligomers
pvap	1.20e-03	kPa	348.15	Temperature-Dependent Vapor Pressure of Selected Cyclic and Linear Polydimethylsiloxane Oligomers
pvap	2.89e-03	kPa	358.15	Temperature-Dependent Vapor Pressure of Selected Cyclic and Linear Polydimethylsiloxane Oligomers
pvap	6.63e-03	kPa	368.15	Temperature-Dependent Vapor Pressure of Selected Cyclic and Linear Polydimethylsiloxane Oligomers
pvap	0.01	kPa	378.15	Temperature-Dependent Vapor Pressure of Selected Cyclic and Linear Polydimethylsiloxane Oligomers
pvap	0.03	kPa	388.15	Temperature-Dependent Vapor Pressure of Selected Cyclic and Linear Polydimethylsiloxane Oligomers
pvap	0.06	kPa	398.15	Temperature-Dependent Vapor Pressure of Selected Cyclic and Linear Polydimethylsiloxane Oligomers
pvap	0.12	kPa	408.15	Temperature-Dependent Vapor Pressure of Selected Cyclic and Linear Polydimethylsiloxane Oligomers
pvap	0.23	kPa	418.15	Temperature-Dependent Vapor Pressure of Selected Cyclic and Linear Polydimethylsiloxane Oligomers

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C556718&Units=SI>
Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Temperature-Dependent Vapor Pressure of Selected Cyclic and Linear Polydimethylsiloxane Oligomers: <https://www.doi.org/10.1021/je100835n>

Legend

hfust: Enthalpy of fusion at a given temperature
hvapt: Enthalpy of vaporization at a given temperature
log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
pvap: Vapor pressure
rinpol: Non-polar retention indices
tf: Normal melting (fusion) point

Latest version available from:

<https://www.chemeo.com/cid/60-752-0/Cyclononasiloxane-octadecamethyl.pdf>

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