

3-Ethyl-5-(2-ethylbutyl)-octadecene

Inchi:	InChI=1S/C26H52/c1-6-11-12-13-14-15-16-17-18-19-20-21-26(22-24(7-2)8-3)23-25(9-4)
InchiKey:	SEUBIOGHQATFHT-UHFFFAOYSA-N
Formula:	C26H52
SMILES:	C=CC(CC)CC(CCCCCCCCCCCCC)CC(CC)CC
Mol. weight [g/mol]:	364.69

Physical Properties

Property code	Value	Unit	Source
gf	248.56	kJ/mol	Joback Method
hf	-470.38	kJ/mol	Joback Method
hfus	51.25	kJ/mol	Joback Method
hvap	71.64	kJ/mol	Joback Method
log10ws	-9.83		Crippen Method
logp	9.732		Crippen Method
mcvol	372.900	ml/mol	McGowan Method
pc	751.43	kPa	Joback Method
rinpola	368.90		NIST Webbook
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tb	789.64	K	Joback Method
tc	967.91	K	Joback Method
tf	336.02	K	Joback Method
vc	1.454	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1190.18	J/molxK	789.64	Joback Method
cpg	1296.80	J/molxK	938.20	Joback Method
cpg	1277.58	J/molxK	908.49	Joback Method
cpg	1257.35	J/molxK	878.77	Joback Method
cpg	1236.08	J/molxK	849.06	Joback Method
cpg	1213.70	J/molxK	819.35	Joback Method
cpg	1315.07	J/molxK	967.91	Joback Method
dvisc	0.0000362	Paxs	789.64	Joback Method

dvisc	0.0000527	Paxs	714.04	Joback Method
dvisc	0.0000839	Paxs	638.43	Joback Method
dvisc	0.0001515	Paxs	562.83	Joback Method
dvisc	0.0003285	Paxs	487.23	Joback Method
dvisc	0.0009464	Paxs	411.62	Joback Method
dvisc	0.0043895	Paxs	336.02	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=R516635&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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