

Benzene, 2-(1-decyl-1-undecenyl)-1,4-dimethyl-

Other names:	11-(2',5'-Dimethylphenyl)-10-heneicosene 11-(2,5-Dimethylphenyl)-10-heneicosene
Inchi:	InChI=1S/C29H50/c1-5-7-9-11-13-15-17-19-21-28(29-25-26(3)23-24-27(29)4)22-20-18-1
InchiKey:	HSENBQKKQBBBPT-SGWCAAJKSA-N
Formula:	C29H50
SMILES:	CCCCCCCCC=C(CCCCCCCCCC)c1cc(C)ccc1C
Mol. weight [g/mol]:	398.71
CAS:	55373-90-5

Physical Properties

Property code	Value	Unit	Source
gf	358.12	kJ/mol	Joback Method
hf	-320.87	kJ/mol	Joback Method
hfus	63.02	kJ/mol	Joback Method
hvap	83.79	kJ/mol	Joback Method
log10ws	-11.20		Crippen Method
logp	10.358		Crippen Method
mcvol	391.410	ml/mol	McGowan Method
pc	753.08	kPa	Joback Method
tb	903.60	K	Joback Method
tc	1106.48	K	Joback Method
tf	449.01	K	Joback Method
vc	1.532	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1299.18	J/mol×K	903.60	Joback Method
cpg	1321.61	J/mol×K	937.41	Joback Method
cpg	1342.84	J/mol×K	971.23	Joback Method
cpg	1362.93	J/mol×K	1005.04	Joback Method
cpg	1381.99	J/mol×K	1038.85	Joback Method
cpg	1400.09	J/mol×K	1072.67	Joback Method
cpg	1417.32	J/mol×K	1106.48	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C55373905&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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

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