Benzene, 1,1'-dodecylidenebis[4-methyl-

Other names:	1,1-Di(4'-methylphenyl)dodecane
	1,1-Di-p-tolyldodecane
	Benzene, 1,1'-dodecylidenebis*4-methyl-
	1,1-Di(4-tolyl)dodecane
Inchi:	InChI=1S/C26H38/c1-4-5-6-7-8-9-10-11-12-13-26(24-18-14-22(2)15-19-24)25-20-16-23(3
InchiKey:	DLFGXQMVWJJEOW-UHFFFAOYSA-N
Formula:	C26H38
SMILES:	CCCCCCCCCCCC(c1ccc(C)cc1)c1ccc(C)cc1
Mol. weight [g/mol]:	350.58
CAS:	55268-62-7

Physical Properties

Property code	Value	Unit	Source
gf	371.16	kJ/mol	Joback Method
hf	-135.13	kJ/mol	Joback Method
hfus	46.88	kJ/mol	Joback Method
hvap	78.96	kJ/mol	Joback Method
log10ws	-9.09		Crippen Method
logp	8.356		Crippen Method
mcvol	329.680	ml/mol	McGowan Method
pc	1058.26	kPa	Joback Method
tb	857.16	K	Joback Method
tc	1065.77	K	Joback Method
tf	445.66	K	Joback Method
vc	1.270	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1043.50	J/mol×K	857.16	Joback Method
cpg	1063.54	J/mol×K	891.93	Joback Method
cpg	1082.31	J/mol×K	926.70	Joback Method
cpg	1099.90	J/mol×K	961.47	Joback Method
cpg	1116.38	J/mol×K	996.23	Joback Method

cpg	1131.82	J/mol×K	1031.00	Joback Method
cpg	1146.30	J/mol×K	1065.77	Joback Method
dvisc	0.0008454	Pa×s	445.66	Joback Method
dvisc	0.0003701	Pa×s	514.24	Joback Method
dvisc	0.0001968	Pa×s	582.83	Joback Method
dvisc	0.0001195	Pa×s	651.41	Joback Method
dvisc	0.0000798	Pa×s	719.99	Joback Method
dvisc	0.0000572	Pa×s	788.58	Joback Method
dvisc	0.0000432	Pa×s	857.16	Joback Method
hvapt	98.30	kJ/mol	497.50	NIST Webbook

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C55268627&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

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

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
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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