

4-Methoxy-4'-octoxy-trans-stilbene

Inchi:	InChI=1S/C23H30O2/c1-3-4-5-6-7-8-19-25-23-17-13-21(14-18-23)10-9-20-11-15-22(24-26)2
InchiKey:	LEYURONIACYWJT-MDZDMXLPSA-N
Formula:	C23H30O2
SMILES:	CCCCCCCCOc1ccc(C=Cc2ccc(OC)cc2)cc1
Mol. weight [g/mol]:	338.48
CAS:	35135-46-7

Physical Properties

Property code	Value	Unit	Source
gf	218.56	kJ/mol	Joback Method
hf	-215.15	kJ/mol	Joback Method
hfus	45.21	kJ/mol	Joback Method
hvap	77.45	kJ/mol	Joback Method
log10ws	-7.25		Crippen Method
logp	6.605		Crippen Method
mcvol	294.850	ml/mol	McGowan Method
pc	1297.66	kPa	Joback Method
tb	837.96	K	Joback Method
tc	1051.05	K	Joback Method
tf	466.23	K	Joback Method
vc	1.123	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	896.72	J/mol×K	837.96	Joback Method
cpg	974.93	J/mol×K	1015.53	Joback Method
cpg	961.55	J/mol×K	980.02	Joback Method
cpg	947.08	J/mol×K	944.50	Joback Method
cpg	931.50	J/mol×K	908.99	Joback Method
cpg	914.73	J/mol×K	873.47	Joback Method
cpg	987.31	J/mol×K	1051.05	Joback Method
dvisc	0.0000351	Pa×s	837.96	Joback Method
dvisc	0.0000452	Pa×s	776.00	Joback Method

dvisc	0.0000609	Pa×s	714.05	Joback Method
dvisc	0.0000868	Pa×s	652.10	Joback Method
dvisc	0.0001332	Pa×s	590.14	Joback Method
dvisc	0.0002260	Pa×s	528.18	Joback Method
dvisc	0.0004415	Pa×s	466.23	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C35135467&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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

Latest version available from:

<https://www.chemeo.com/cid/81-708-6/4-Methoxy-4-octoxy-trans-stilbene.pdf>

Generated by Cheméo on 2025-12-05 18:25:24.107137403 +0000 UTC m=+4707321.637178057.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.