

4-Methyl-trans-«beta»-methylstyrene

Inchi:	InChI=1S/C10H12/c1-3-4-10-7-5-9(2)6-8-10/h3-8H,1-2H3/b4-3+
InchiKey:	LSMSSYSRCUNIFX-ONEGZZNKSA-N
Formula:	C10H12
SMILES:	CC=Cc1ccc(C)cc1
Mol. weight [g/mol]:	132.20

Physical Properties

Property code	Value	Unit	Source
gf	216.32	kJ/mol	Joback Method
hf	92.55	kJ/mol	Joback Method
hfus	15.51	kJ/mol	Joback Method
hvap	40.75	kJ/mol	Joback Method
log10ws	-3.19		Crippen Method
logp	3.028		Crippen Method
mcvol	123.700	ml/mol	McGowan Method
pc	3052.41	kPa	Joback Method
rinpol	1109.00		NIST Webbook
rinpol	1109.00		NIST Webbook
ripol	1428.70		NIST Webbook
tb	464.02	K	Joback Method
tc	680.34	K	Joback Method
tf	236.32	K	Joback Method
vc	0.468	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	240.90	J/molxK	464.02	Joback Method
cpg	255.19	J/molxK	500.07	Joback Method
cpg	268.61	J/molxK	536.13	Joback Method
cpg	281.21	J/molxK	572.18	Joback Method
cpg	293.02	J/molxK	608.23	Joback Method
cpg	304.09	J/molxK	644.28	Joback Method
cpg	314.47	J/molxK	680.34	Joback Method

dvisc	0.0022393	Paxs	236.32	Joback Method
dvisc	0.0011023	Paxs	274.27	Joback Method
dvisc	0.0006447	Paxs	312.22	Joback Method
dvisc	0.0004235	Paxs	350.17	Joback Method
dvisc	0.0003021	Paxs	388.12	Joback Method
dvisc	0.0002288	Paxs	426.07	Joback Method
dvisc	0.0001814	Paxs	464.02	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=R150933&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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