

2,3,5,6-Tetramethylstyrene

Inchi:	InChI=1S/C12H16/c1-6-12-10(4)8(2)7-9(3)11(12)5/h6-7H,1H2,2-5H3
InchiKey:	DZBJUMKRRRLCW-UHFFFAOYSA-N
Formula:	C12H16
SMILES:	C=Cc1c(C)c(C)cc(C)c1C
Mol. weight [g/mol]:	160.26
CAS:	2039-91-0

Physical Properties

Property code	Value	Unit	Source
gf	211.89	kJ/mol	Joback Method
hf	25.07	kJ/mol	Joback Method
hfus	18.04	kJ/mol	Joback Method
hvap	46.56	kJ/mol	Joback Method
log10ws	-4.20		Crippen Method
logp	3.563		Crippen Method
mcvol	151.880	ml/mol	McGowan Method
pc	2363.37	kPa	Joback Method
tb	517.24	K	Joback Method
tc	725.45	K	Joback Method
tf	299.74	K	Joback Method
vc	0.581	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	329.04	J/molxK	517.24	Joback Method
cpg	396.40	J/molxK	690.75	Joback Method
cpg	384.26	J/molxK	656.05	Joback Method
cpg	371.46	J/molxK	621.34	Joback Method
cpg	358.01	J/molxK	586.64	Joback Method
cpg	343.87	J/molxK	551.94	Joback Method
cpg	407.93	J/molxK	725.45	Joback Method
dvisc	0.0001846	Paxs	517.24	Joback Method
dvisc	0.0002200	Paxs	480.99	Joback Method

dvisc	0.0002698	Paxs	444.74	Joback Method
dvisc	0.0003430	Paxs	408.49	Joback Method
dvisc	0.0004570	Paxs	372.24	Joback Method
dvisc	0.0006477	Paxs	335.99	Joback Method
dvisc	0.0009990	Paxs	299.74	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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=C2039910&Units=SI

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.cheméo.com/cid/79-458-7/2-3-5-6-Tetramethylstyrene.pdf>

Generated by Cheméo on 2024-04-27 08:07:55.041338427 +0000 UTC m=+16494523.961915767.

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