

Benzene, 1-methyl-4-(1-methylethenyl)-

Other names:

- 1-Isopropenyl-4-methylbenzene
- 1-Methyl-4-(1-methylethenyl)-benzene
- 1-Methyl-4-isopropenylbenzene
- 1-methyl-4«alpha»-methylstyrene
- 1-methyl-4Â«alphaÂ»-methylstyrene
- 1-p-Tolyl-1-methylethylene
- 2-(p-Methylphenyl)propene
- 2-P-TOLYLPROPENE
- 4-CH3C6H4C(CH3)CH2
- 4-ISOPROPENYLTOLUENE
- 4-Methyl-«alpha»-methylstyrene
- 4-Methyl-Â«alphaÂ»-methylstyrene
- 4-Methylisopropenylbenzene
- Cymenene
- Dehydro-p-cymene
- Methyl-4-(1-methylethenyl)-benzene
- NSC 361058
- P-ISOPROPENYL TOLUENE
- Styrene, p,«alpha»-dimethyl-
- Styrene, p,Â«alphaÂ»-dimethyl-
- Styrene, «alpha»,4-dimethyl
- Styrene, Â«alphaÂ»,4-dimethyl
- p,«alpha»-Dimethylstyrene
- p,«alpha»-Dimethylstyrol
- p,Â«alphaÂ»-Dimethylstyrene
- p,Â«alphaÂ»-Dimethylstyrol
- p-Cymenene
- p-Methyl-«alpha»-methylstyrene
- p-Methyl-Â«alphaÂ»-methylstyrene
- para- «alpha»-Dimethylstyrene
- para- Â«alphaÂ»-Dimethylstyrene
- «alpha»,4-Dimethylstyrene
- «alpha»,p-Dimethylstyrene
- «alpha»-dimethyl-p-styrene
- Â«alphaÂ»,4-Dimethylstyrene
- Â«alphaÂ»,p-Dimethylstyrene
- Â«alphaÂ»-dimethyl-p-styrene

Inchi: InChI=1S/C10H12/c1-8(2)10-6-4-9(3)5-7-10/h4-7H,1H2,2-3H3

InchiKey: MMSLOZQEMPDGPI-UHFFFAOYSA-N

Formula: C10H12

SMILES: C=C(C)c1ccc(C)cc1
Mol. weight [g/mol]: 132.20
CAS: 1195-32-0

Physical Properties

Property code	Value	Unit	Source
affp	881.80	kJ/mol	NIST Webbook
basg	852.90	kJ/mol	NIST Webbook
gf	215.39	kJ/mol	Joback Method
hf	90.97	kJ/mol	Joback Method
hfus	12.72	kJ/mol	Joback Method
hvap	40.20	kJ/mol	Joback Method
log10ws	-3.19		Crippen Method
logp	3.028		Crippen Method
mcvol	123.700	ml/mol	McGowan Method
pc	3035.62	kPa	Joback Method
rinpol	1085.00		NIST Webbook
rinpol	1094.00		NIST Webbook
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tb	459.65 ± 2.00	K	NIST Webbook
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tb	450.30 ± 0.30	K	NIST Webbook
tb	450.85 ± 0.40	K	NIST Webbook

tc	671.23	K	Joback Method
tf	204.51 ± 0.50	K	NIST Webbook
tf	205.08 ± 0.30	K	NIST Webbook
vc	0.469	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	240.50	J/mol×K	456.42	Joback Method
cpg	254.75	J/mol×K	492.22	Joback Method
cpg	268.18	J/mol×K	528.02	Joback Method
cpg	280.82	J/mol×K	563.82	Joback Method
cpg	292.71	J/mol×K	599.62	Joback Method
cpg	303.88	J/mol×K	635.42	Joback Method
cpg	314.37	J/mol×K	671.23	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1195320&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
KDB:	https://www.cheric.org/files/research/kdb/mol/mol739.mol
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

affp:	Proton affinity
basg:	Gas basicity
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
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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