

# 4-Isopropylphenylacetic acid

<b>Other names:</b>	p-Isopropyl phenyl acetic acid Benzeneacetic acid, 4-(1-methylethyl)-
<b>Inchi:</b>	InChI=1S/C11H14O2/c1-8(2)10-5-3-9(4-6-10)7-11(12)13/h3-6,8H,7H2,1-2H3,(H,12,13)
<b>InchiKey:</b>	RERBQXVRXYCGLT-UHFFFAOYSA-N
<b>Formula:</b>	C11H14O2
<b>SMILES:</b>	CC(C)c1ccc(CC(=O)O)cc1
<b>Mol. weight [g/mol]:</b>	178.23
<b>CAS:</b>	4476-28-2

## Physical Properties

Property code	Value	Unit	Source
gf	-123.66	kJ/mol	Joback Method
hf	-315.40	kJ/mol	Joback Method
hfus	20.06	kJ/mol	Joback Method
hvap	66.06	kJ/mol	Joback Method
log10ws	-2.56		Crippen Method
logp	2.437		Crippen Method
mvol	149.530	ml/mol	McGowan Method
pc	3103.64	kPa	Joback Method
rinpol	1514.00		NIST Webbook
rinpol	1514.00		NIST Webbook
tb	628.35	K	Joback Method
tc	830.56	K	Joback Method
tf	348.42	K	Joback Method
vc	0.562	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	375.11	J/molxK	628.35	Joback Method
cpg	387.20	J/molxK	662.05	Joback Method
cpg	398.56	J/molxK	695.75	Joback Method
cpg	409.25	J/molxK	729.46	Joback Method
cpg	419.27	J/molxK	763.16	Joback Method

cpg	428.66	J/molxK	796.86	Joback Method
cpg	437.45	J/molxK	830.56	Joback Method
dvisc	0.0050073	Paxs	348.42	Joback Method
dvisc	0.0016186	Paxs	395.07	Joback Method
dvisc	0.0006642	Paxs	441.73	Joback Method
dvisc	0.0003231	Paxs	488.38	Joback Method
dvisc	0.0001782	Paxs	535.04	Joback Method
dvisc	0.0001082	Paxs	581.69	Joback Method
dvisc	0.0000707	Paxs	628.35	Joback Method

## Sources

<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C4476282&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4476282&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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