Answer on Question#37842-Chemistry-Organic Chemistry

Question

How many acids can be taken to obtain isobutane from decarboxylation?

Answer

Seven acids can be taken to obtain isobutane by decarboxylation. **Two** of them are monobasic:

two – dibasic:

HO OH
$$T$$
, °C $-2CO_2$

2,2-dimethylbutanedioic acid

isobutane

two - tribasic:

3-(carboxymethyl)pentanedioic acid

HO O O
$$T$$
, $^{\circ}C$ $-3CO_2$ isobutane

2-methylpropane-1,2,3-tricarboxylic acid

and one - tetrabasic:

2-(carboxymethyl)propane-1,2,3-tricarboxylic acid